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THE BRITISH CONSTRUCTIONAL ENGINEER AND THE CONTRACTOR

No. 4,208 81st YEAR

THURSDAY, FEBRUARY 18, 1960

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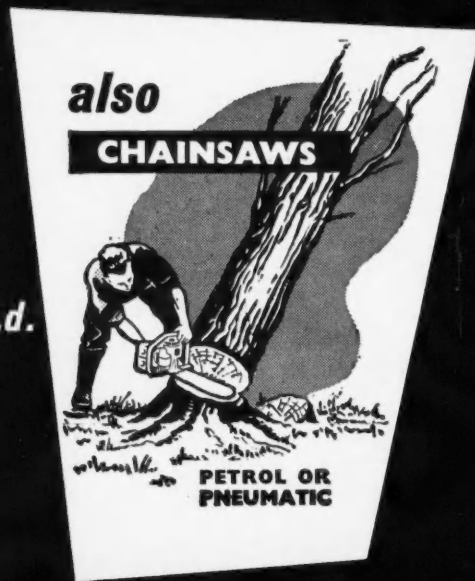
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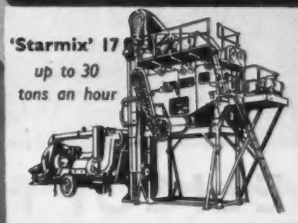
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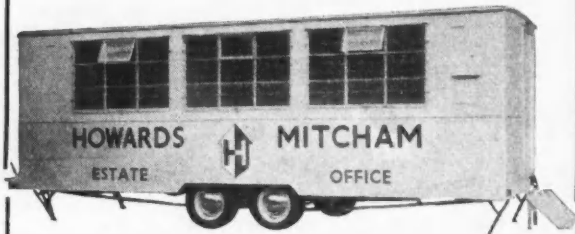


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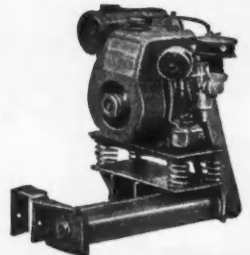
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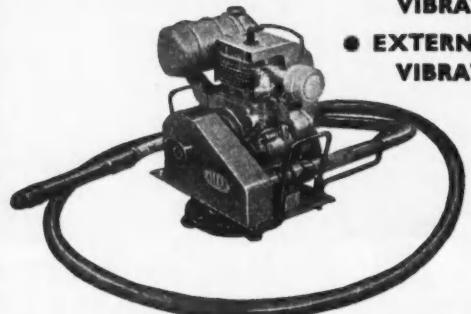
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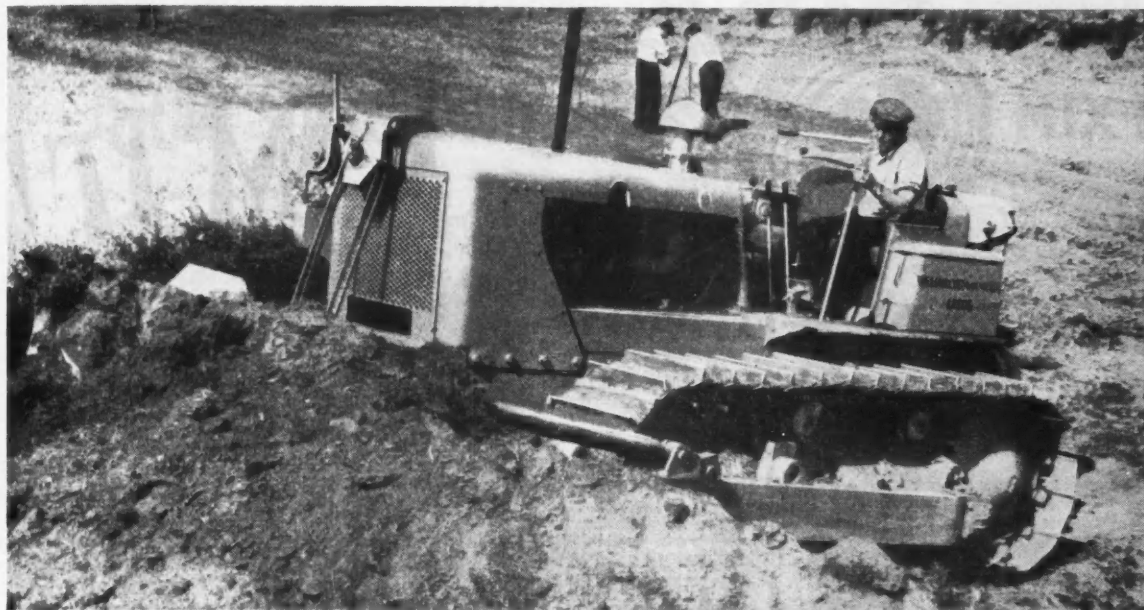
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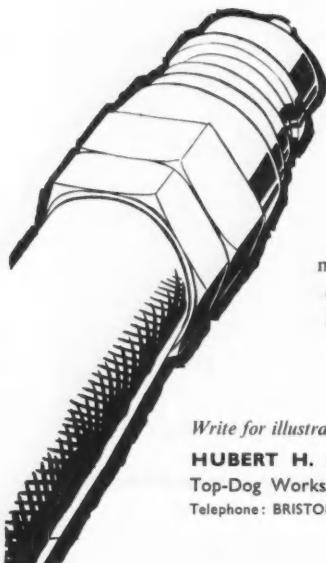
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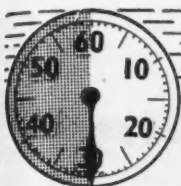
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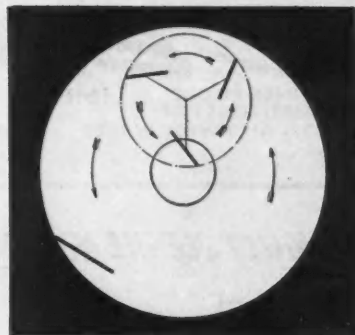
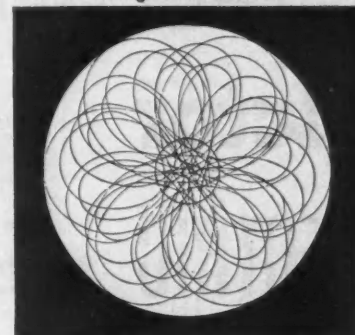


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Showing Path of the Mixing Blade in one Revolution of the Pan.

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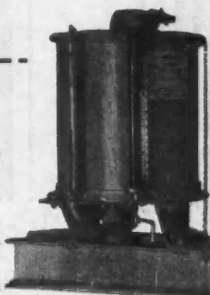
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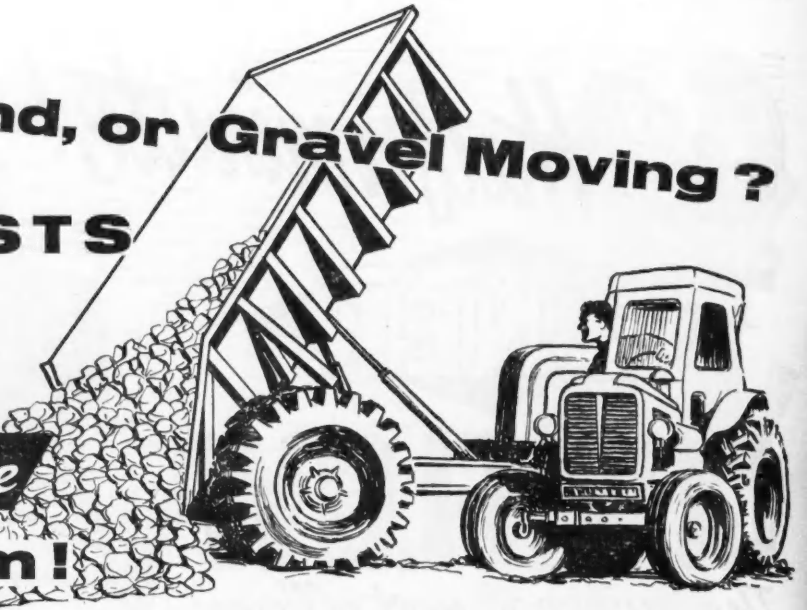


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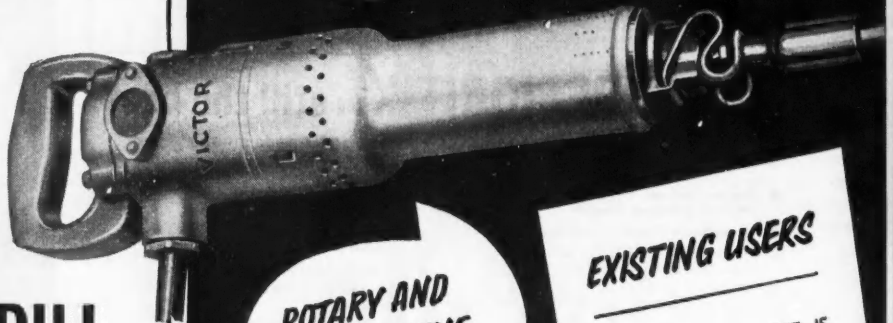
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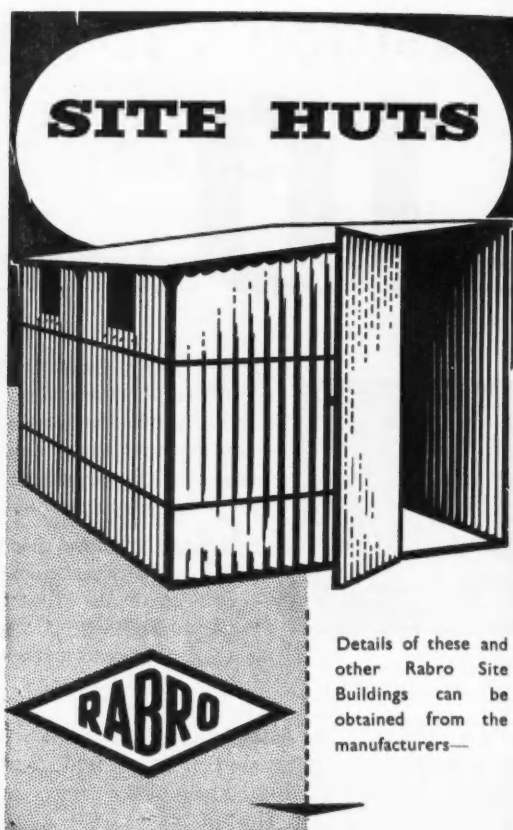
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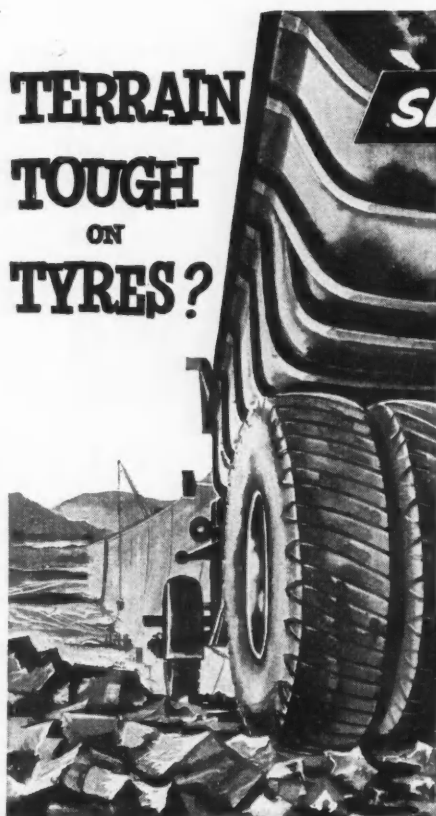


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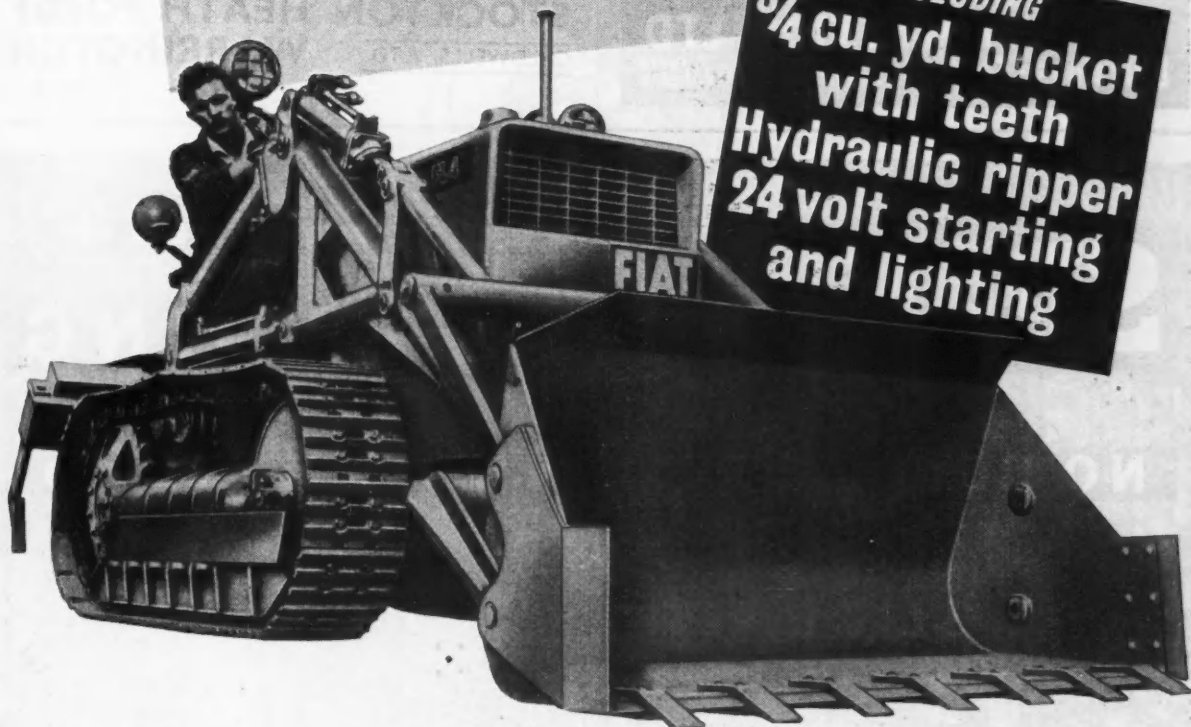
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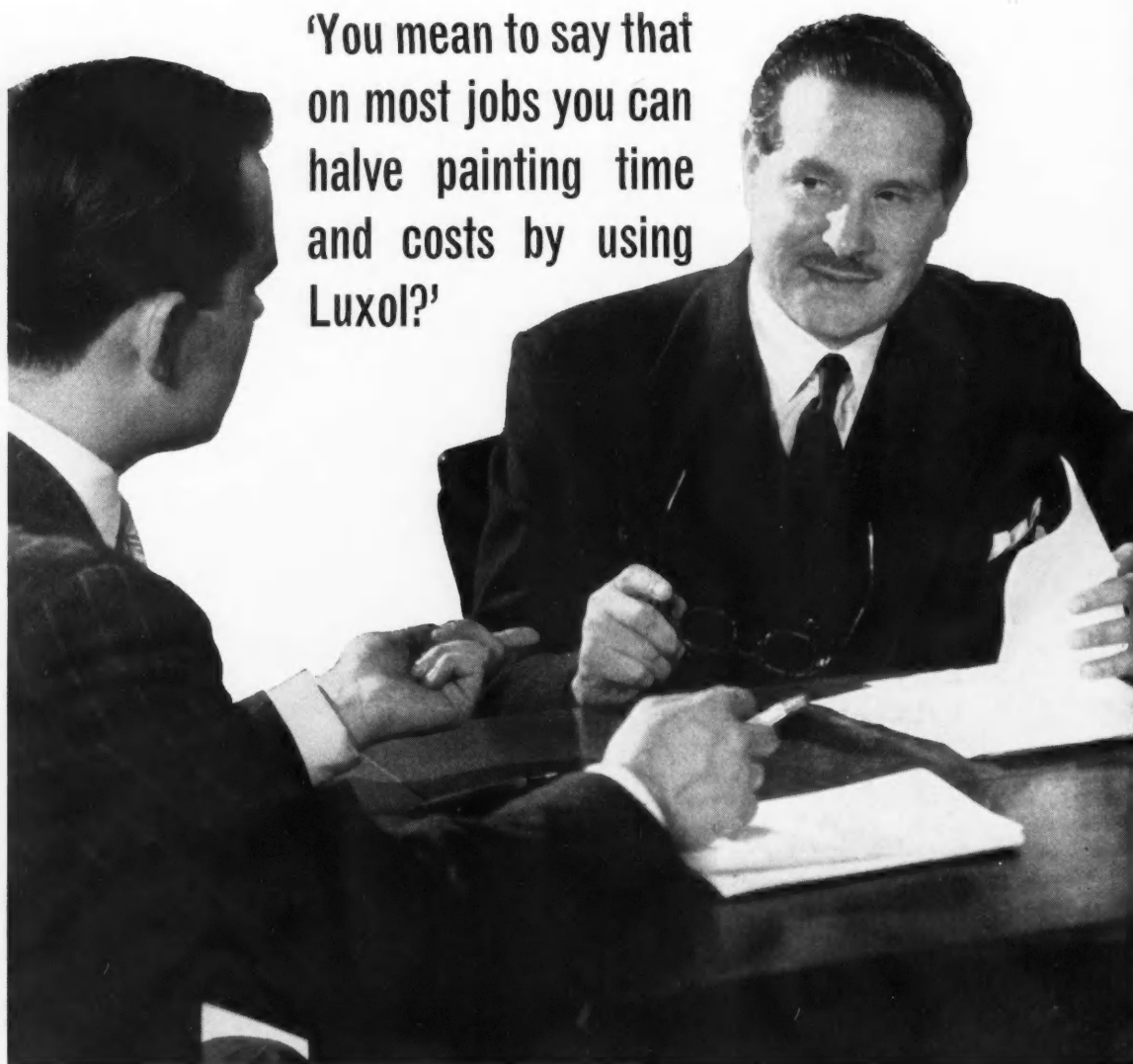
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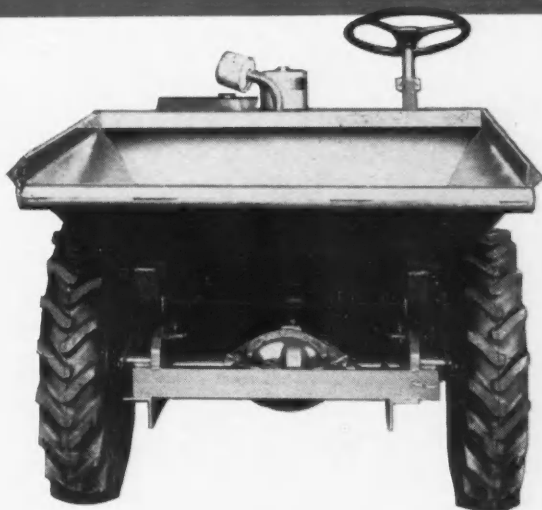
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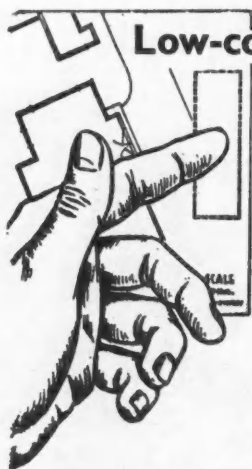
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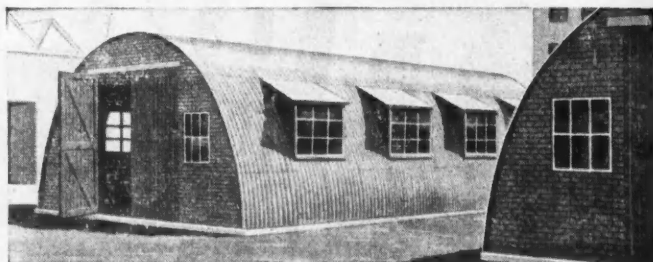
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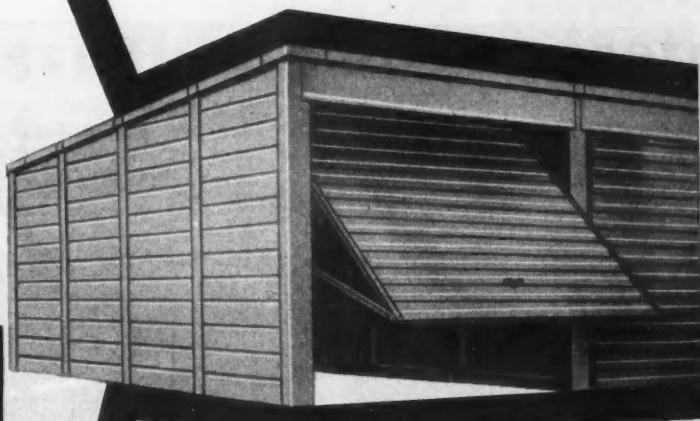
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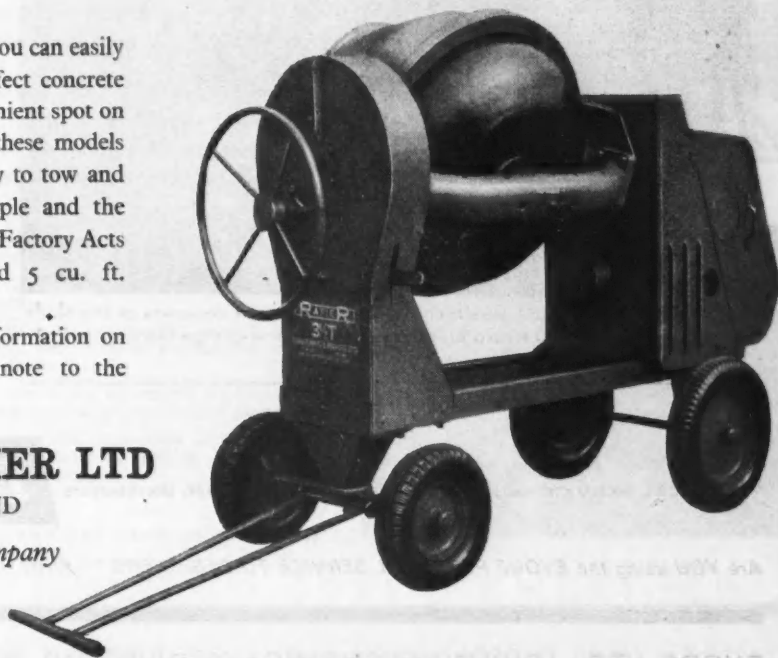
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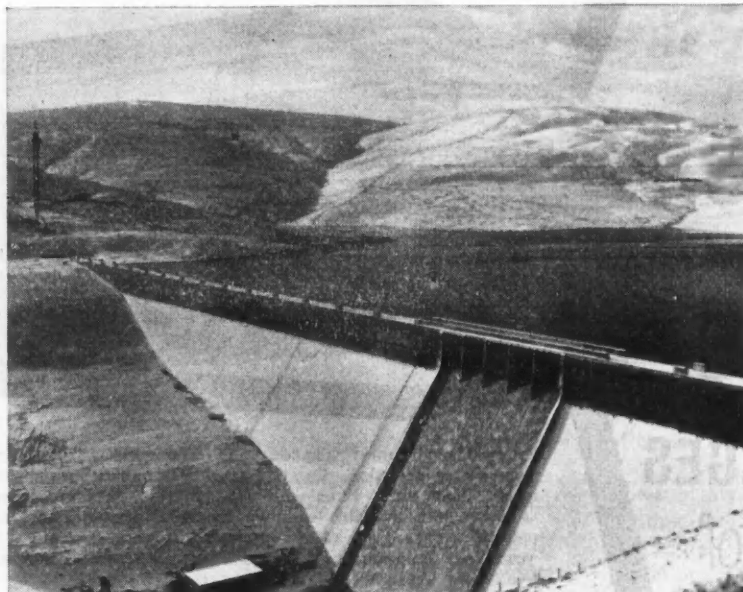
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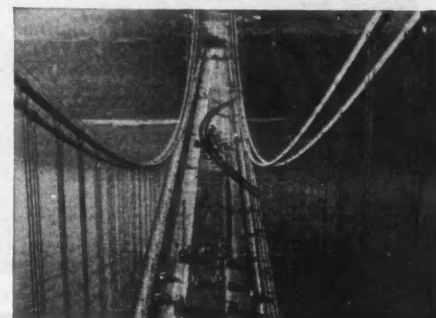
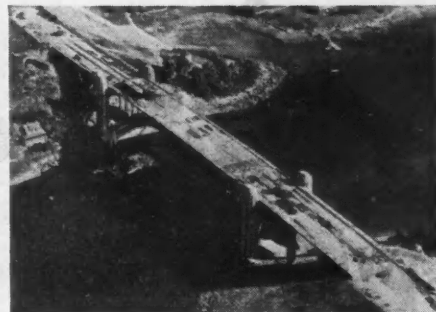
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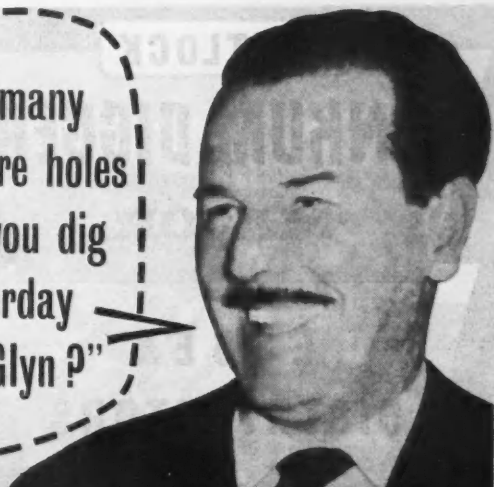
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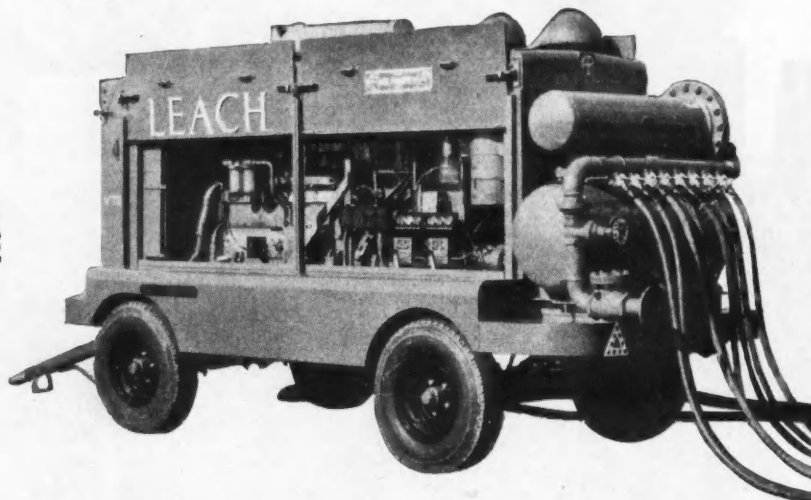
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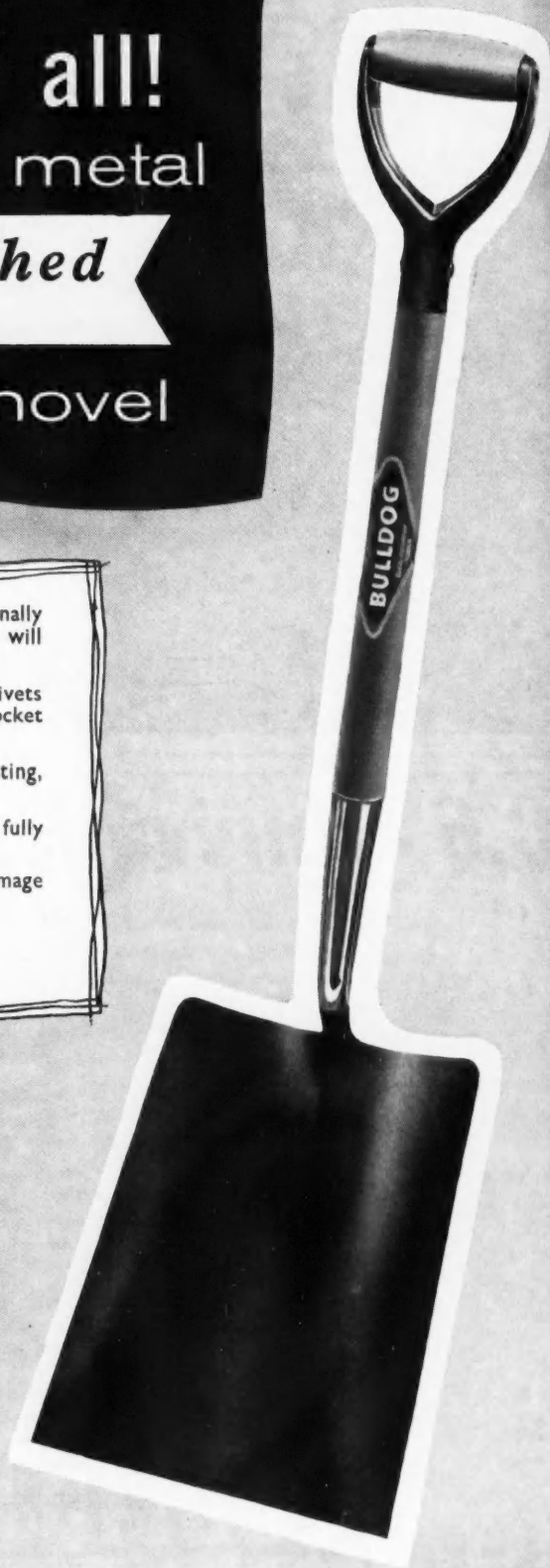
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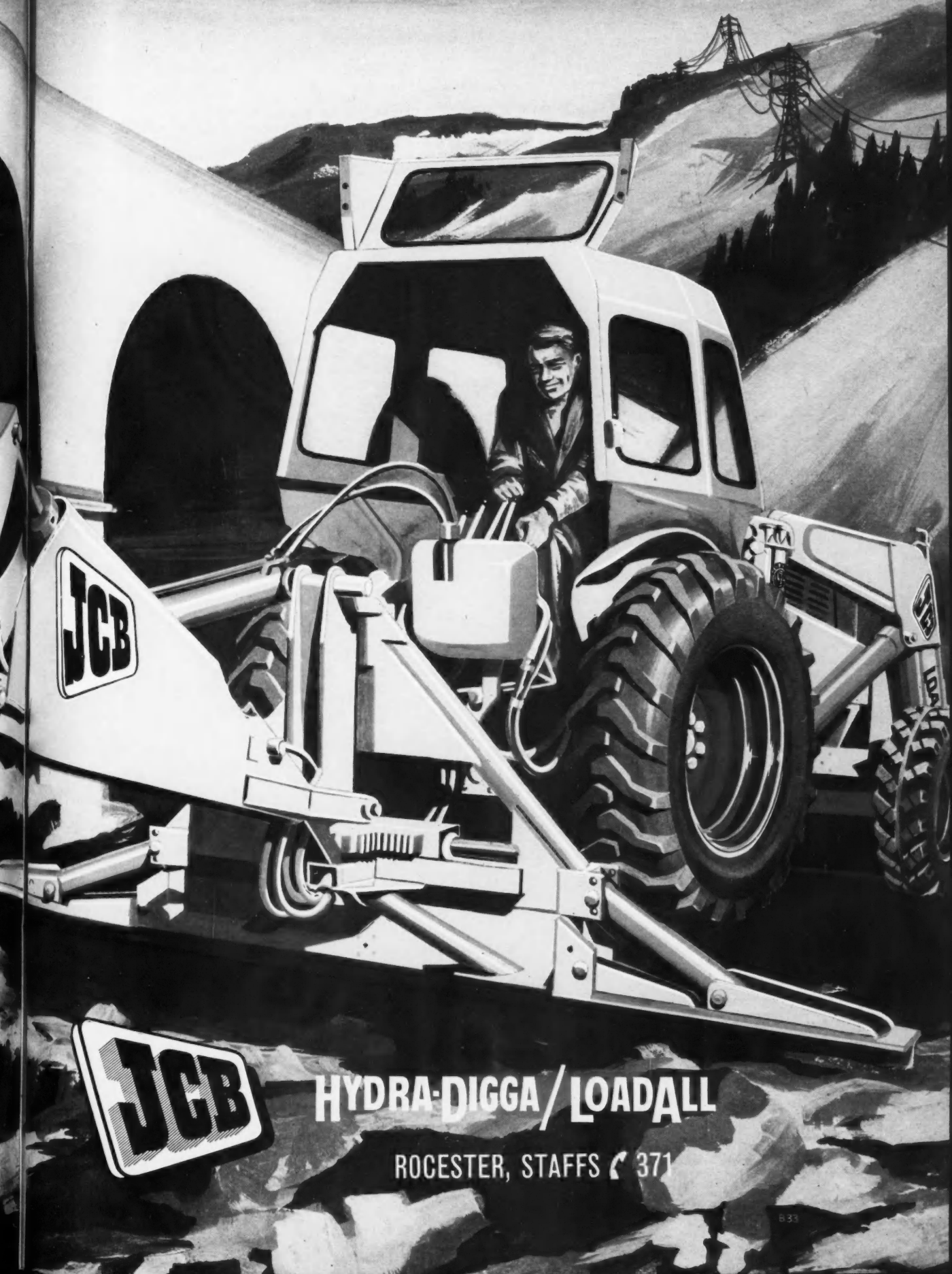
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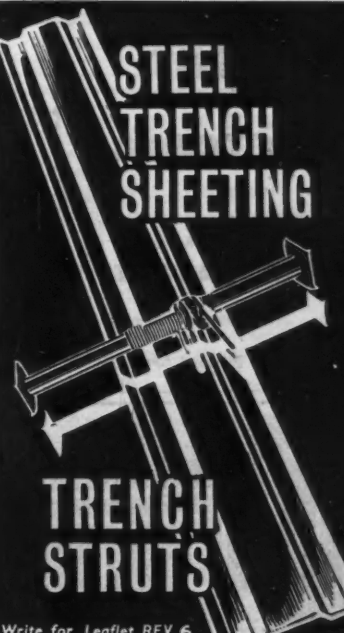
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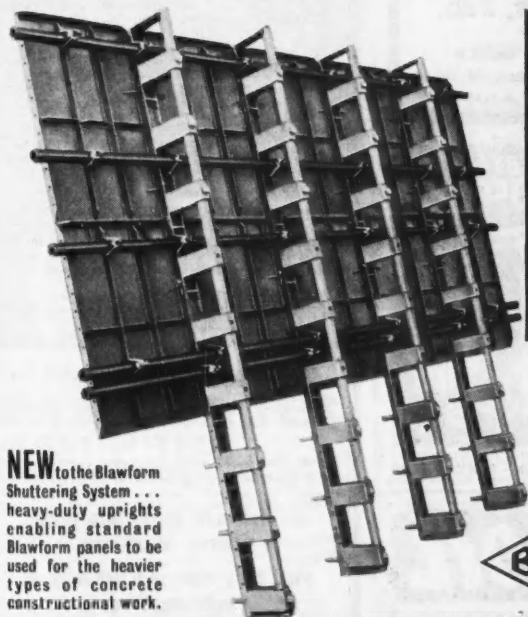
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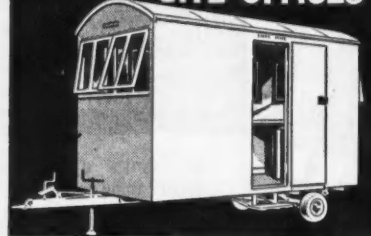
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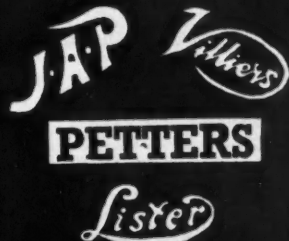
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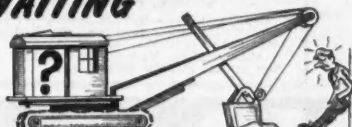
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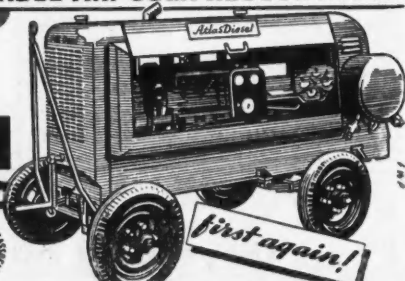
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## ★ Further Classified Plant Advertisements on pages 893-900

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One Weatherill 4HTW Hydraulically operated Diesel  
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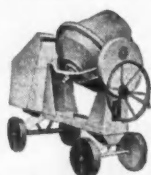
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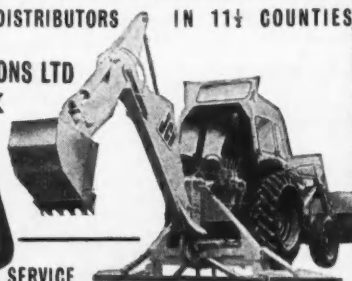
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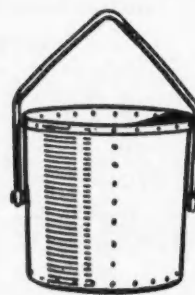
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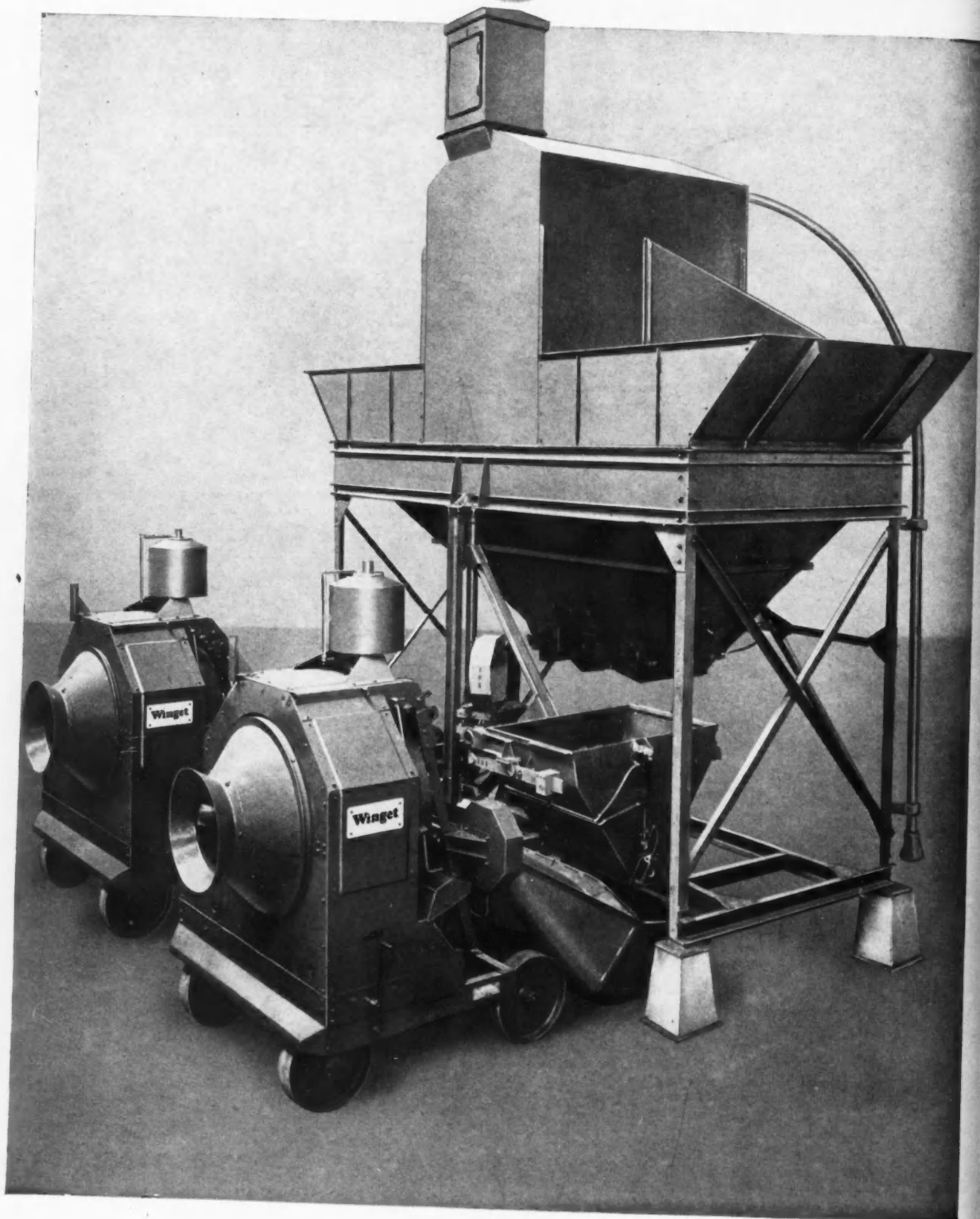
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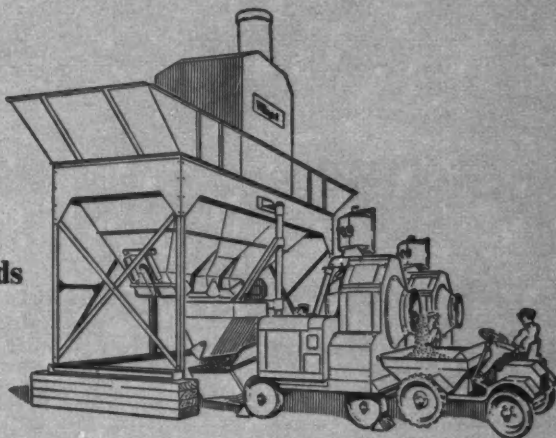
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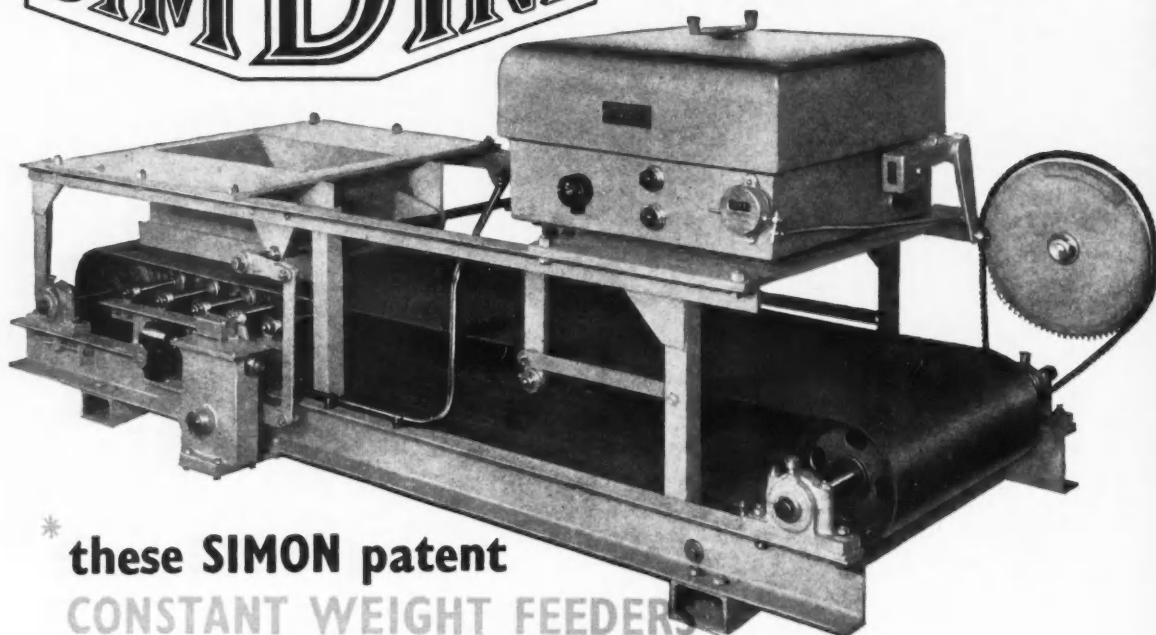


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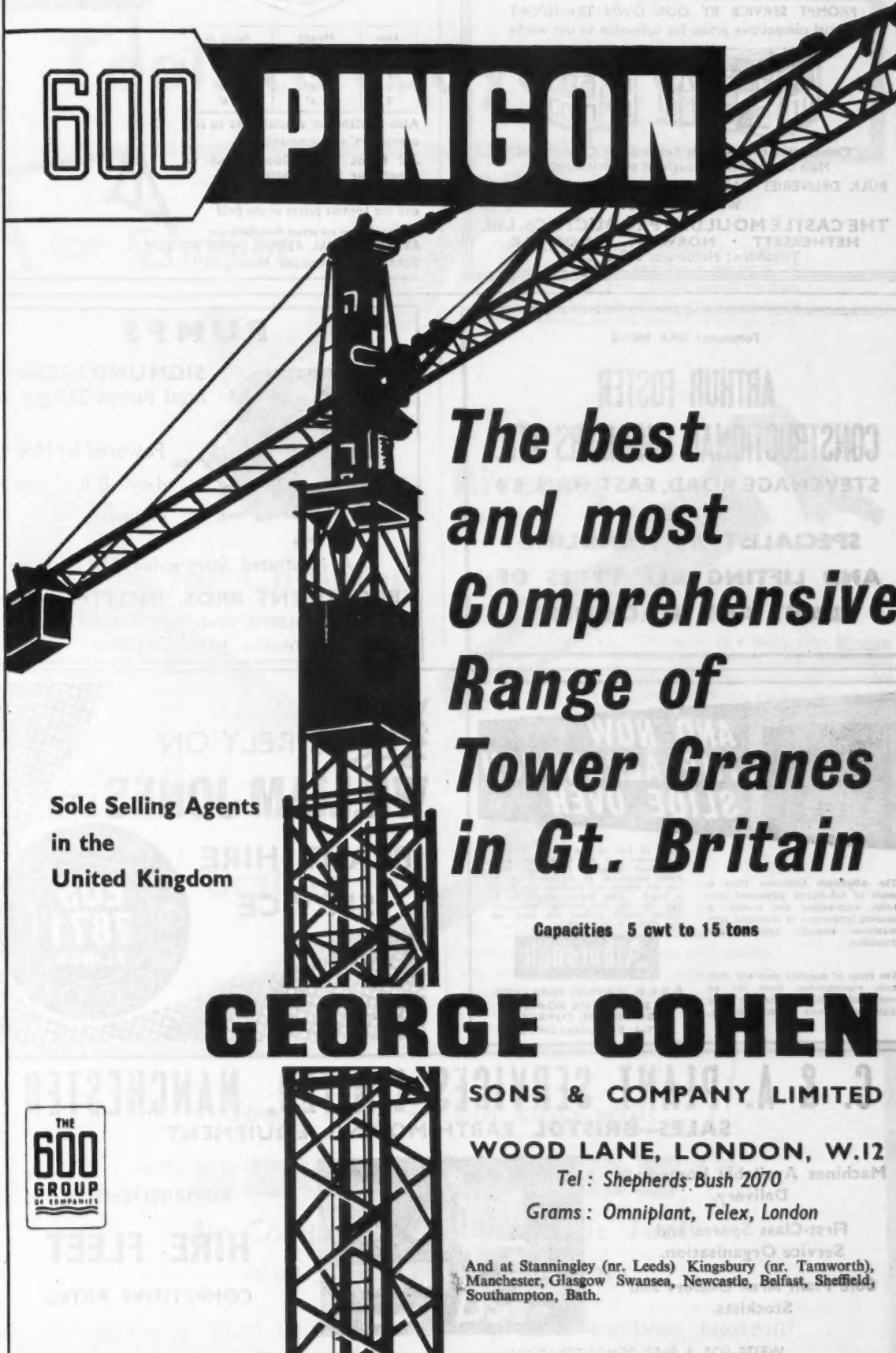
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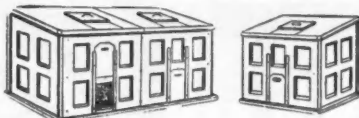
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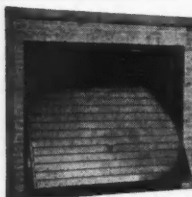
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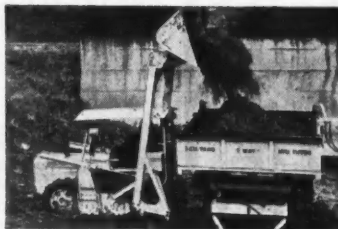
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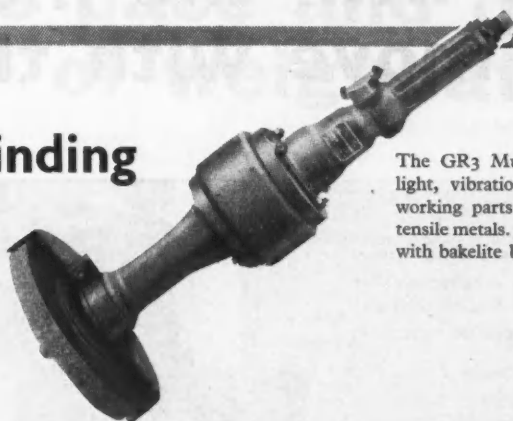
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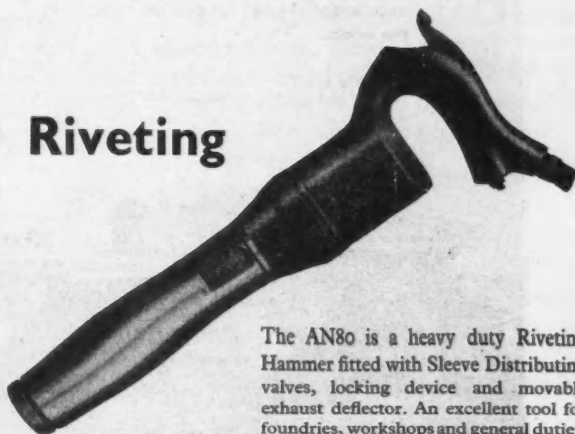
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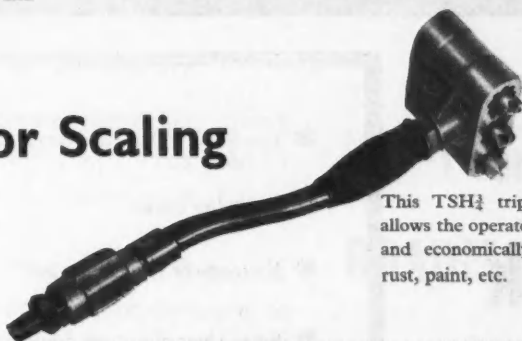
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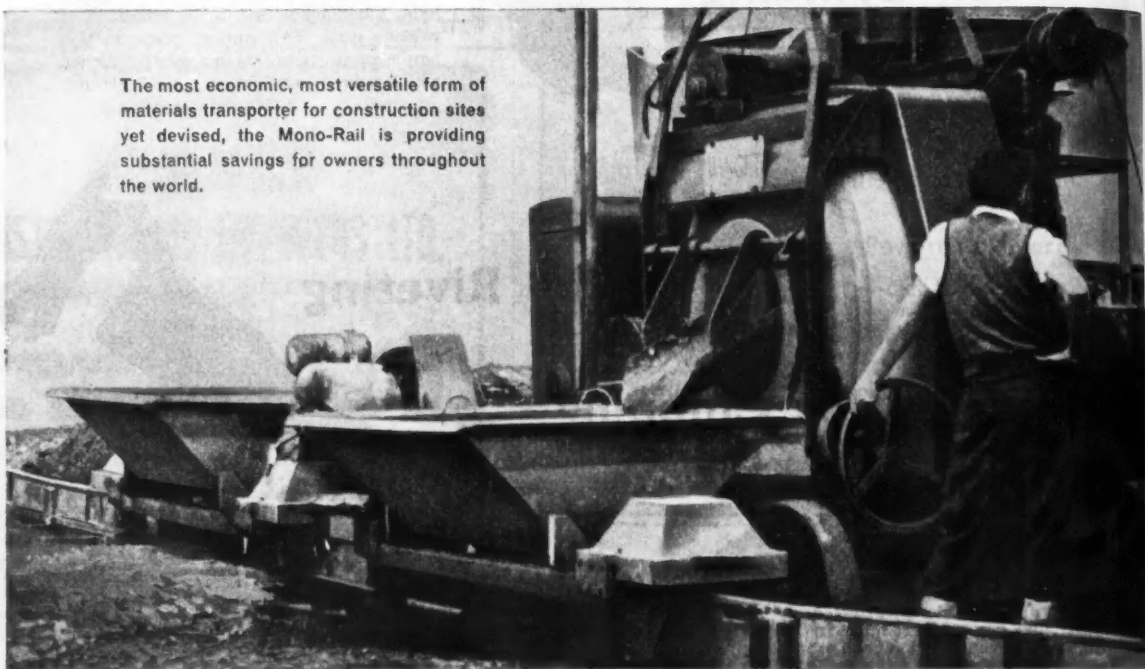
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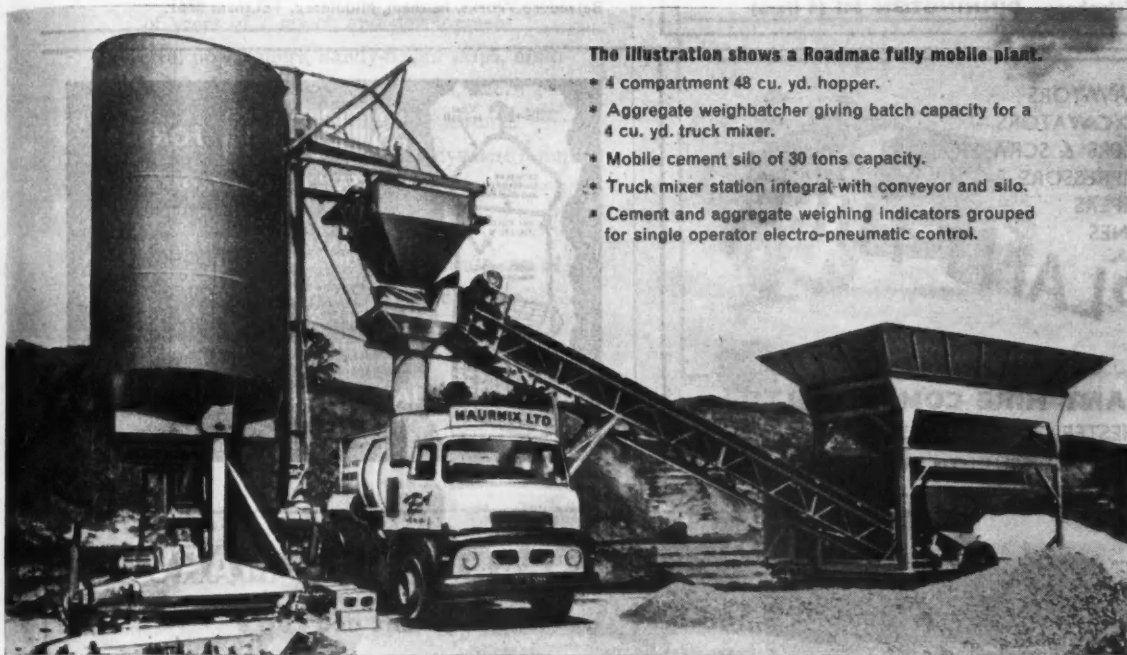
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"Mobile Ready-mixed Concrete plant"  
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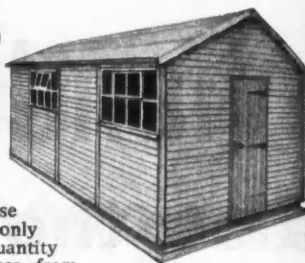
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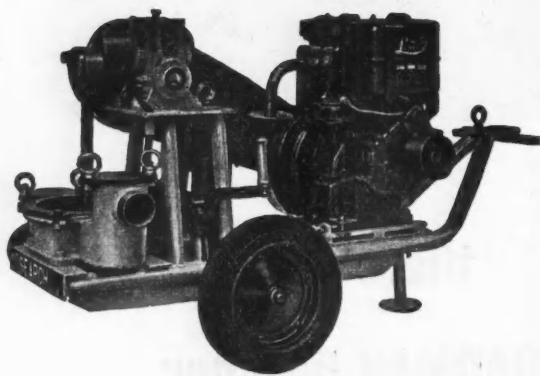
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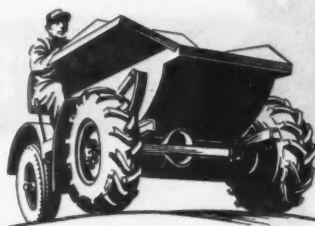
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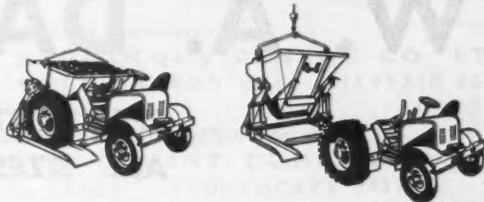


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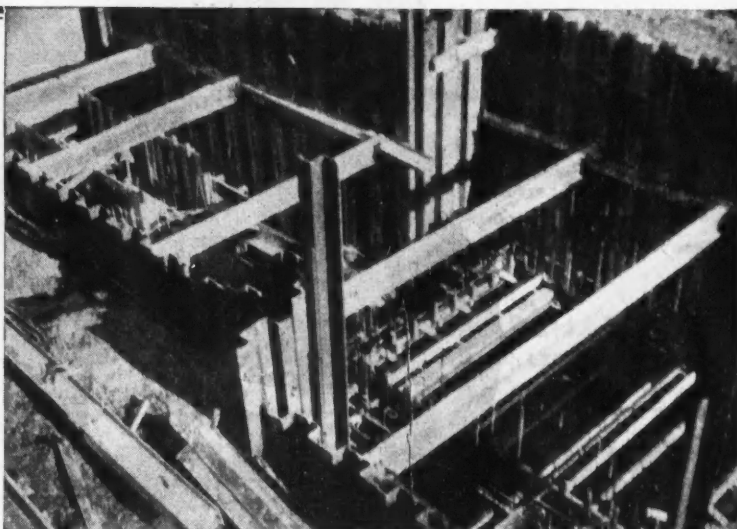
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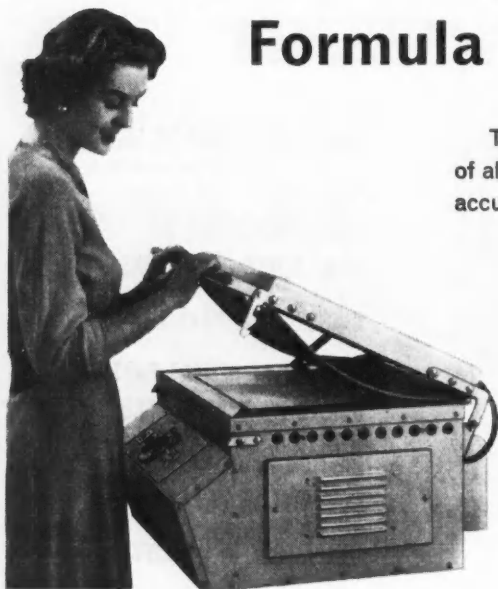
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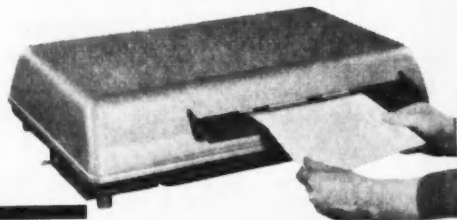
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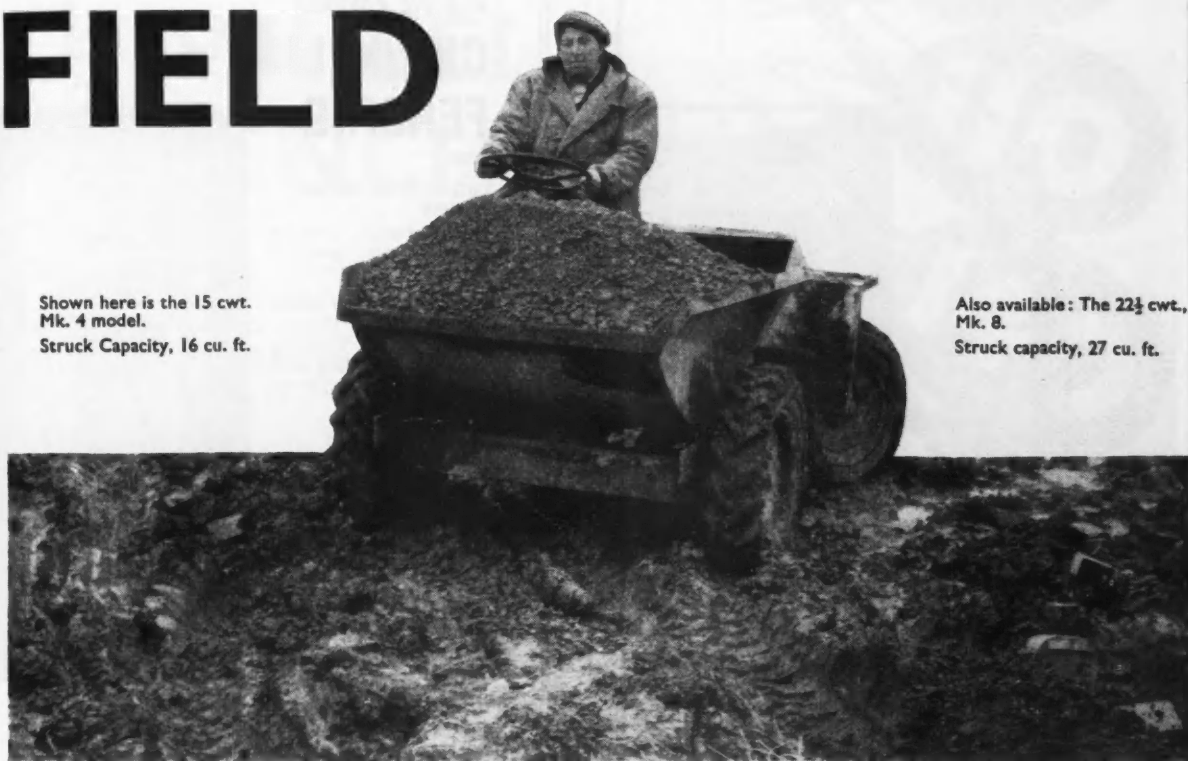


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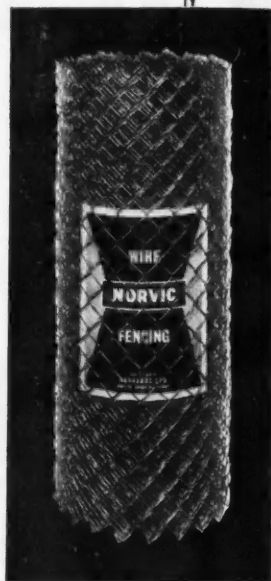
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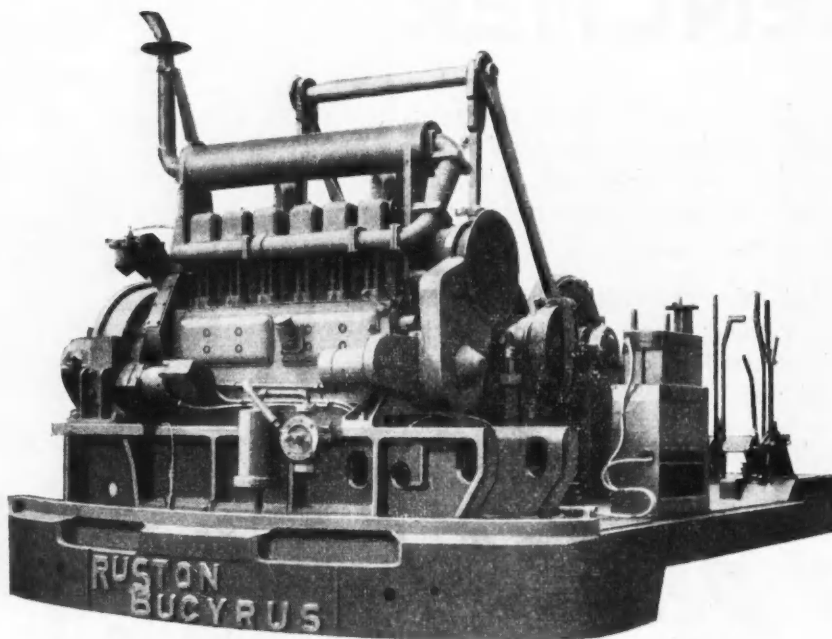


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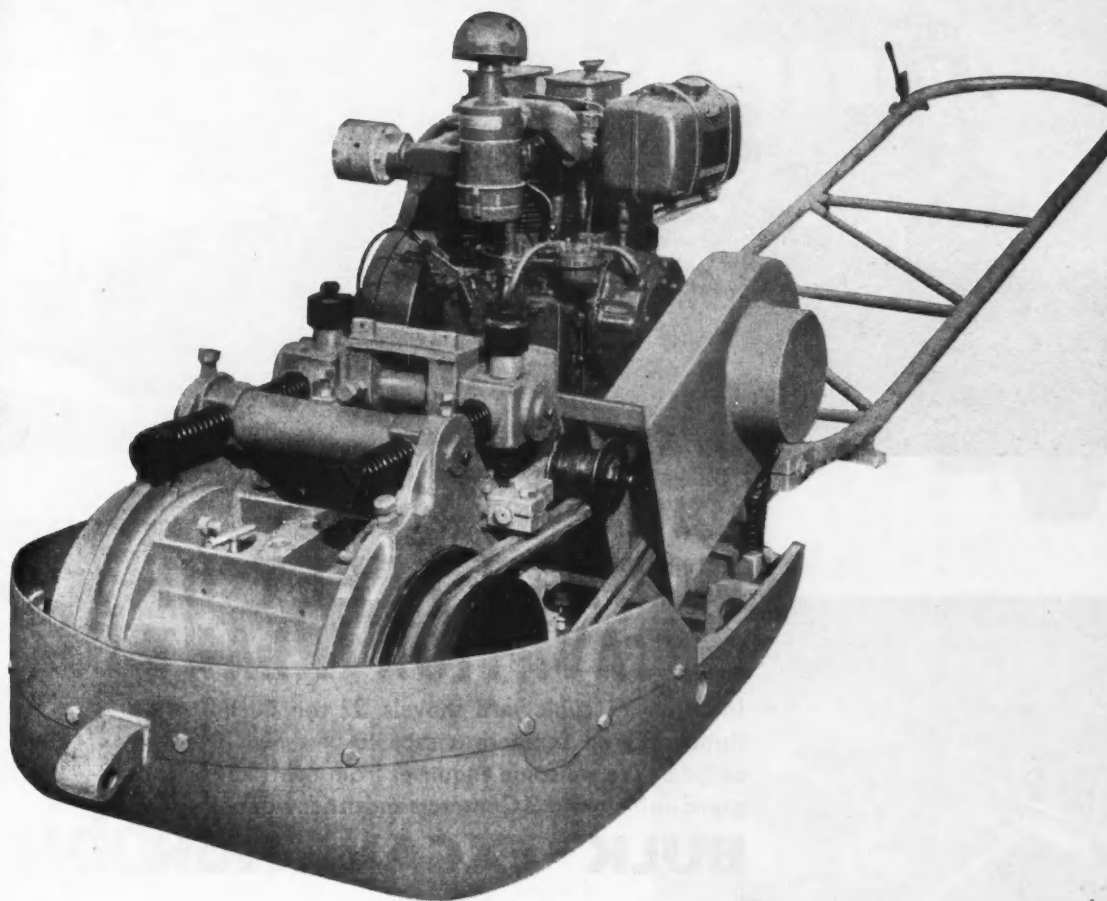
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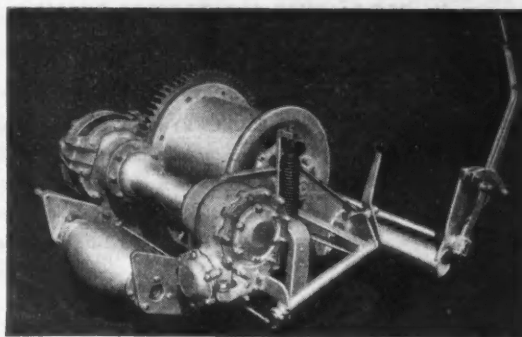
The "Highwayman" Transporter shown here carrying a "19 R.B." excavator, is suitable for payloads up to 25-tons. It is designed as a complete articulated vehicle with correct distribution of the load throughout and balanced air pressure power braking on all wheels, giving maximum stability and safety. Powered by a 150 b.h.p. diesel and fitted with Scammell 6-speed gearbox and heavy duty double reduction epicyclic driving axle.

**"This SCAMMELL  
is worth an  
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3 excavators"**

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"With this low loader we can now move our machines from site to site at our own convenience and it is now a proposition to take on those 2-3 day jobs which previously were impracticable owing to high cost of transport. In fact, the purchase of this Scammell is worth an additional three excavators to us".

Messrs. Short Bros' Report on their Scammell "Highwayman" Transporter makes pleasant reading... but that's not the only praise they give. High performance and manoeuvrability also get top marks. Whilst the largest load carried to date is a 22 R.B., this was found "well within the vehicle's capacity".



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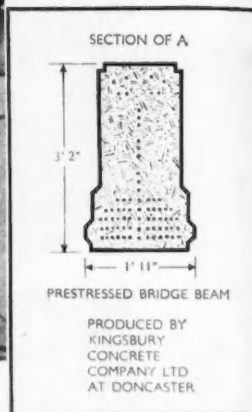
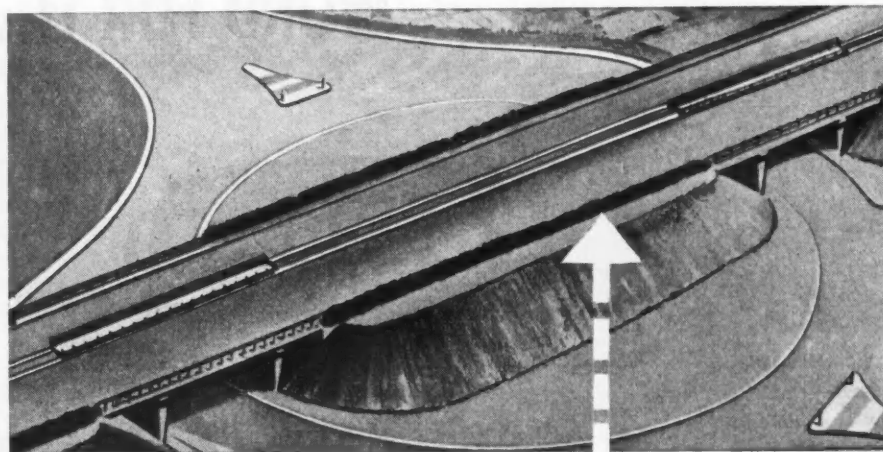
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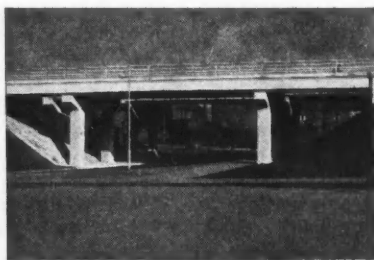
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**RYLANDS**

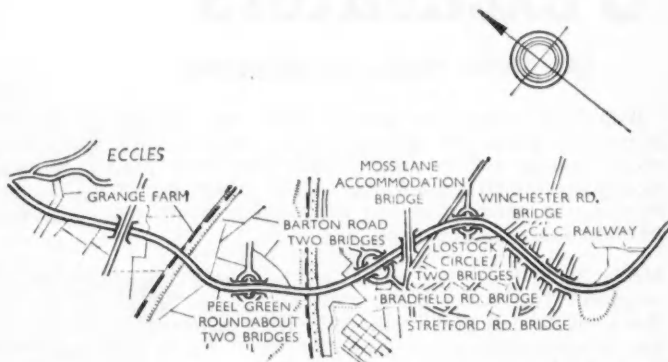
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**WIRES**IN PRODUCING PRESTRESSED BEAMS  
FOR THESE BRIDGES

The map shows the route of the STRETTFORD-ECCLES BY-PASS and the location of the 12 bridges for which prestressed beams were used. 10 of these bridges are constructed to carry the motorway across roads, road junctions and railways. the other 2 are over bridges.

STRETTFORD-ECCLES BY-PASS CONSTRUCTED FOR  
LANCASHIRE COUNTY COUNCILCOUNTY SURVEYOR & BRIDGEMASTER  
James Drake, Esq., B.Sc., M.I.C.E., M.I.Mun.E.CONTRACTORS: For bridges north of the new Barton Road Bridge  
MESSRS. GEE, WALKER & SLATER, LTD.For bridges south of the new Barton Road Bridge  
MESSRS. A. E. FARR LTD.Sub-Contractor for prestressed concrete beams  
MESSRS. KINGSBURY CONCRETE CO. LIMITED

One of the completed bridges at Peel Green



Map showing the twelve bridges

**RYLANDS**

DEPENDABLE IN THE WORLD OF WIRE

**RYLANDS BROTHERS LIMITED, WARRINGTON, ENGLAND**

## CONTRACTS

## BOROUGH OF BARNES.

## WESTFIELDS HOUSING SCHEME—PART II (114 FLATS).

SEVERLEY BROOK SITE—CROSS STREET, S.W.13.

**FIXED-PRICE TENDERS** are invited for the ERECTION of 114 FLATS in Five Blocks in Crosswall Construction—Four Blocks of Four Storeys with Pile Foundations and Ground Floor Beams by other contractor. One Three-storey Block, including Strip Foundations, and Outbuildings.

Forms of Tender, Drawings, Specification and Bills of Quantities may be obtained from the Office of the undersigned, to whom Tenders, sealed in the envelope provided, must be returned not later than First Post on WEDNESDAY, 16th March, 1960.

Fully priced Bills, under separate cover if preferred, should be forwarded to this Office on the same day.

W. R. SHEPHERD, A.M.I.C.E., F.R.I.C.S.,  
M.I.Mun.E., A.M.T.P.I.,  
Borough Engineer and Surveyor.

Municipal Offices,  
Sheen Lane, S.W.14.

## CITY OF SALFORD.

## PROPOSED 28 (FOUR-STOREY) MAISONNETTES—OAKLANDS ROAD, SALFORD, 7.

**FIRM-PRICE TENDERS** are invited for the CONSTRUCTION of 28 MAISONNETTES in Three Four-storey Blocks, at OAKLANDS ROAD, Salford, 7. Conditions of Contract and Drawings may be inspected at, and Bills of Quantities and Form of Firm-price Tender obtained from, the City Engineer and Surveyor's Department, Town Hall, Salford, 3, on payment of a deposit of £2 2s., which will be returned on submission of a bona-fide Firm-price Tender, not subsequently withdrawn.

Firm-price Tenders, on the prescribed form, sealed in the envelope provided, and bearing no other mark or identification, must be forwarded to the undersigned as to be received not later than 10 a.m. on WEDNESDAY, 2nd March, 1960.

The Council does not bind itself to accept the lowest or any Firm-price Tender.

R. RIBBLESDALE THORNTON,  
Town Clerk.

## RURAL DISTRICT COUNCIL OF DURSLEY.

## COMPREHENSIVE SCHEME OF WATER SUPPLY—CONTRACT NO. 4—WITHIN THE PARISHES OF CAM AND COALEY.

The Council invite TENDERS on a fixed-price basis from experienced civil engineering contractors for the FOLLOWING WORKS OF WATER SUPPLY:—

- (1) Construction of a 40,000-gallon Concrete Reservoir.
- (2) Construction of a 5,000-gallon Concrete Break Pressure Tank.
- (3) The Provision and Laying of Spun-Iron Water Mains, 200 lin. yd. 6in. dia.
- (4) The Provision and Laying of Asbestos-Cement Pressure Mains:—
  - (a) 2,340 lin. yd. 6in. dia.
  - (b) 3,780 lin. yd. 4in. dia.
  - (c) 3,300 lin. yd. 3in. dia.
- (5) The Provision and Laying of Galvanised Steel Mains of 2in. and 1½in. dia., 850 lin. yd.
- (6) The Provision and Laying of new Service Connections, together with Disconnection of existing Service Connections from existing Mains and Reconnection to new Mains, together with ancillary works.

Contractors desirous of tendering are requested to advise the Consulting Engineers, Messrs. T. WARD WHITFIELD AND SON, 54 Stallard Street, Trowbridge, Wilts., not later than WEDNESDAY, 17th February, 1960, after which they will receive full particulars. The applications must be accompanied by a deposit of Five Guineas, which will be returned after receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes, endorsed "Tender for Water Works," must reach the undersigned by a date to be given by the Engineers.

The Council do not bind themselves to accept the lowest or any Tender.

H. A. PATE,  
Clerk of the Council.

Council Offices,  
Kingshill,  
Dursley, Glos.  
2nd February, 1960.

## AMERSHAM RURAL DISTRICT COUNCIL.

## ENGINEER AND SURVEYOR'S DEPARTMENT.

## COUNCIL HOUSES—EXTERNAL REDECORATIONS, 1960.

The Council have under consideration a programme of EXTERNAL REDECORATIONS by Contracts for HOUSES on Sites varying from Eight to 54 Houses at various parts of their area. It is proposed to let Contracts according to the separate Estates involved.

The Council set a high standard for this work, and as a guide to contractors, a priced schedule has been prepared for each site. The work will be closely supervised to ensure that the specifications are adhered to. Selected contractors will be required to submit Tenders based on the priced schedule.

Contractors wishing to be considered for the work should apply (before 29th FEBRUARY, 1960) to J. GODBEHERE, Esq., Engineer and Surveyor of the Council, enclosing particulars of similar work recently carried out by them.

The Council will select from the applicants those contractors they consider have the necessary experience and ability to comply with their requirements.

H. E. BUXTON,  
Clerk to the Council.

Fimodsham House,  
42 High Street,  
Amersham, Bucks.

## CHESTERTON RURAL DISTRICT COUNCIL.

## IMPINGTON SEWERAGE SCHEME.

The Chesterton Rural District Council invites TENDERS for approx. 1,100 lin. yd. of 6in. and 9in. CONCRETE PIPES, MANHOLES, PUMPING STATION, and other works.

Drawings and General Conditions of Contract may be inspected at the Office of the Engineer and Surveyor, County Hall, Hobson Street, Cambridge, and from whom the Specification, Bills of Quantities and Form of Tender may be obtained on payment of a £2 2s. deposit, which will be returned on receipt of a bona-fide Tender, not subsequently withdrawn, plus the return of the deposit.

Sealed Tenders, in envelopes bearing no indication of the sender and endorsed "Impington Sewerage Scheme," must be delivered to the undersigned not later than 12 Noon, 7th MARCH, 1960.

The Council does not bind itself to accept the lowest or any Tender.

W. H. HAYWARD,  
Clerk of the Council.

Municipal Offices,  
Sheen Lane, S.W.14.

## CONTRACTS

## SURREY COUNTY COUNCIL.

## HIGHWAYS AND BRIDGES DEPARTMENT.

TENDERS invited for SUPPLYING and LAYING HOT ROLLED GRANITE ASPHALT CARPET on LONDON-PENZANCE TRUNK ROAD (A.30) at WINDLESHAM (approx. 20,000 sq. yd.).

Particulars and Forms of Tender, returnable by First Post on 29th FEBRUARY, 1960, obtainable from COUNTY ENGINEER, County Hall, Kingston-upon-Thames.

## COUNTY BOROUGH OF ROTHERHAM.

## CONTRACT FOR THE SUPPLY OF DUSTBINS FOR THE YEAR 1960-61.

TENDERS are invited for the SUPPLY of 2,500 GALVANISED DUSTBINS, 3½ cu. ft. capacity, weighing, complete with lid, 28lb., and complying with B.S.S.792 of 1947.

Form of Tender and Conditions of Contract may be obtained from the Borough Engineer, Municipal Offices, Rotherham, on application, and are to be returned to me in a sealed envelope, endorsed "Tender for Dustbins," but bearing no other mark indicating the tender, not later than MONDAY, 29th February, 1960.

The Council does not bind itself to accept the lowest or any Tender.

JOHN S. WALL,  
Town Clerk.

Municipal Offices,  
Howard Street,  
Rotherham.

## COUNTY BOROUGH OF HASTINGS.

## COLLEGE OF FURTHER EDUCATION—FIRST INSTALLMENT.

Contractors are invited to submit TENDERS for the ERECTION of the ABOVE, comprising Single-storey Workshop Block and Three-storey Main Block (part of ultimate seven-storey building) for which Piling and Site Levelling has already been carried out.

Bills of Quantities and Forms of Tender will be available late February, and may be obtained from the Borough Engineer, 37 Wellington Square, Hastings, on receipt of £5 5s., which will be returned after a bona-fide Tender is received.

Sealed Tenders, in an envelope to be provided, should be delivered to the undersigned not later than 10 a.m. on MONDAY, 28th March, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

N. P. LESTER,  
Town Clerk.

Town Hall,  
Hastings.

## BOROUGH OF RAWTENSTALL.

## ANNUAL TENDERS, 1960-61.

TENDERS are invited for the SUPPLY of the UNDERMENTIONED MATERIALS for the year ending 31st March, 1961:—

- (1) Fine Cold Asphalt.
- (2) Coated Macadam for Cold Laying.
- (3) Sand and Broken Stone.
- (4) Precast Concrete Kerbs and Flags.
- (5) Salt Glazed Ware Pipes and Fittings.
- (6) Manhole Covers and Frames.
- (7) Gully Grates and Frames.
- (8) 2in. and 1½in. Roadstone Chippings.
- (9) White Disinfectant Fluid.
- (10) B.S.S. Galvanised Dustbins.

Contractors desirous of tendering should apply for full particulars to the Borough Engineer and Surveyor, Town Hall, Rawtenstall, in respect of Items (1) to (8), and to the Chief Public Health Inspector, Health Office, Kay Street, Rawtenstall, in respect of Items (9) and (10). Completed Tenders, in plain sealed envelopes, endorsed "Annual Tenders," must be received by the undersigned not later than SATURDAY, 5th March, 1960.

COLIN CAMPBELL,  
Town Clerk.

Town Hall,  
Rawtenstall,  
Rossendale, Lancs.

## BOROUGH OF BERWICK-UPON-TWEED.

## ANNUAL CONTRACTS.

TENDERS are invited for the SUPPLY for the year ending 31st March, 1961, of the FOLLOWING:—

- (1) Kerbs, Channels and Flags.
- (2) Tarmacadam and Dry Road Metal.

Conditions of Contract, Specifications, Schedules and Forms of Tender may be had on application to the Borough Surveyor at the address below.

Tenders, enclosed in plain envelopes, sealed and endorsed "Tender for ———," but bearing no name or mark indicating the sender, must be delivered to the undersigned not later than MONDAY, 14th March, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender, and reserve the right to accept only part of a Tender.

R. B. DAVIDSON,  
Town Clerk.

Municipal Buildings,  
Wallace Green,  
Berwick-upon-Tweed.

11th February, 1960.

## CITY OF LEEDS.

## WATERWORKS DEPARTMENT.

**FIXED-PRICE TENDERS** are invited for the CONSTRUCTION, COMPLETION and MAINTENANCE of approx. Two Miles of 24in. dia. CAST-IRON MAIN and other works connected therewith from SPEN GARDENS, WEST PARK, Leeds, to TONGUE LANE, MEANWOOD, Leeds. The Contract does not include the Supply of Cast-Iron Pipes and Fittings.

Specification and Contract Documents, Bill of Quantities, Schedule of Rates and Prices, together with General Conditions of Contract and Forms of Tender and Agreement, may be obtained from the undersigned, upon payment of a deposit of Three Guineas, which will be refunded following the receipt of a bona-fide Tender and the return of all Contract documents.

The whole of the Contract documents, with Bills of Quantities, Schedule of Rates and Prices and Form of Tender, duly completed, must be enclosed in a plain sealed cover addressed to the Town Clerk, endorsed "Tender for 24in. Main," and be delivered to the Town Clerk's Office, Room 57, Civic Hall, Leeds, 1, not later than 12 Noon on FRIDAY, the 4th March, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

KENNETH L. FORSTER, M.I.C.E.,  
General Manager and Engineer.

Waterworks Department,  
Civic Hall,  
Leeds 1.

3rd February, 1960.

## CONTRACTS

## MERIONETH COUNTY COUNCIL.

## HIGHWAYS AND BRIDGES DEPARTMENT.

TENDERS are invited for the SURFACE DRESSING of TRUNK and COUNTY HIGHWAYS during the year commencing 1st April, 1960.

Tender Forms, Specification and Conditions of Contract may be obtained by sending a stamped addressed envelope to the County Surveyor, County Offices, Peniarth, Dolgellau.

Tenders, enclosed in a plain sealed envelope, endorsed "Tenders—Surface Dressing," should reach the County Clerk, County Offices, Peniarth, Dolgellau, by not later than MONDAY, the 22nd February, 1960.

## COUNTY BOROUGH OF GRIMSBY.

## EDUCATION COMMITTEE.

## SUPPLY OF DETERGENT.

TENDERS are invited for the SUPPLY of approx. 1,000 gallons of DETERGENT annually for use in the School Meals Service and for the Cleaning of Schools. Delivery to Schools and Kitchens will normally be Contract once each term, and the price should include all charges to delivery point.

Full particulars of the product, e.g., dilution rate, must accompany the Tender, which should be forwarded to the undersigned not later than 14 days following the appearance of this advertisement.

R. E. RICHARDSON,  
Director of Education.

Education Office,  
Eleanor Street,  
Grimsby.

## BOROUGH OF RUGBY.

## MODERNISATION OF 100 COUNCIL HOUSES AT CROOP HILL ESTATE.

The CORPORATION invite TENDERS for the PROVISION of BATHROOMS, INSTALLATION of DOMESTIC HOT WATER SYSTEMS and incidental works at THESE HOUSES.

Specification, Drawing and Form of Tender may be obtained from the Borough Surveyor, Burford House, Rugby, on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender. Tenders, in the envelope provided, must be delivered to the undersigned at The Lawn, Newbold Road, Rugby, not later than Noon on 1st MARCH, 1960.

The Corporation do not undertake to accept the lowest or any Tender.

T. L. DUFFY,  
Town Clerk.

## BOROUGH OF BARNES.

## RECONSTRUCTION OF CASTELNAU, A.306 (PART).

## CONTRACT V.

TENDERS are invited for the RECONSTRUCTION of PART of CASTELNAU, A.306, including the Construction of approx. 3,600 sq. yd. of 11in. thick Reinforced Carriageway and Surfacing, with Single Course Hot Rolled Asphalt, and Ancillary Kerbing, Channel and Paving Works.

The Form of Tender, Bill of Quantities and Specification may be obtained from the undersigned, to whom they should be returned, in the envelope provided, not later than First Post, FRIDAY, 18th March, 1960.

W. R. SHEPHERD, A.M.I.C.E., F.R.I.C.S.,  
Borough Engineer and Surveyor.

Municipal Offices,  
Sheen Lane, S.W.14.

January, 1960.

## KESWICK URBAN DISTRICT COUNCIL.

The Council invite builders and contractors who desire to TENDER for the ERECTION of a BUILDING consisting of 20 Aged Persons' Flats, with Warden's Accommodation and Communal Rooms, etc., to send their names to the undersigned not later than 27th FEBRUARY, 1960.

The Contract will be a Fixed-price Contract based on a Specification and the Royal Institute of British Architects' Form of Contract for use where quantities do not form part of the Contract.

(Signed) A. J. HENDERSON,  
Clerk of the Council.

Council Offices,  
50 Main Street,  
Keswick.

8th February, 1960.

## UTTOXETER URBAN DISTRICT COUNCIL.

## 4IN. DIA. WATER MAIN FROM HOCKLEY CROSSING, STAFFORD ROAD, TO PINFOLD CROSSING, BALANCE HILL, UTTOXETER.

TENDERS are invited for the PROVISION, JOINTING and LAYING of approx. 500yd. lin. of 4in. Class "C" SPUN-IRON WATER MAIN with all necessary FITTINGS.

Contract documents are obtainable from the Surveyor to the Council, Old Bank House Annex, High Street, Uttoxeter, on deposit of the sum of £3 (Three Pounds), which will be returned upon receipt of a bona-fide Tender, not subsequently withdrawn, and the return of all other documents on request.

Copies of the Plans can be inspected by appointment at the Surveyor's Office.

Sealed Tenders, in a plain envelope, endorsed "4in. Water Main," should be delivered to the undersigned not later than 12 Noon on THURSDAY, 3rd March, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

JOHN H. KENNY,  
Clerk of the Council.

Council Office,  
Old Bank House,  
72 High Street,  
Uttoxeter, Staffs.

9th February, 1960.

## STEVENAGE DEVELOPMENT CORPORATION.

## CIVIL ENGINEERING CONTRACTS.

Applications are invited from civil engineering contractors who wish to be considered for invitations to TENDER for civil engineering works to be commenced in 1960 and to be let in contracts of £50,000 or over.

The works include: (1) ESTATE DEVELOPMENT; (2) MAIN DRAINAGE; (3) MAIN ROADS.

Contractors should state the types of work in which they are interested and send with their application the names of two engineers under whom they have executed work and to whom reference may be made.

Applications, endorsed "Engineering Contractors," should be submitted to reach the CHIEF ENGINEER not later than 5th March, 1960.

Stevenage Development Corporation,  
Aston House,  
Near Stevenage, Herts.

## CONTRACTS

## MINISTRY OF TRANSPORT.

LONDON-EDINBURGH-THURSO TRUNK ROAD—  
APEX CORNER, HENDON.

The Minister of Transport invites TENDERS for the RECONSTRUCTION of the EXISTING ROUNDABOUT and Approach Roads at Apex Corner, Hendon, Middlesex; the DUPLICATION of the CARRIAGEWAY from Apex Corner to Courtlands Avenue, and the CONSTRUCTION of FOUR PEDESTRIAN SUBWAYS.

Copies of the Contract document may be obtained on or after WEDNESDAY, 17th February, 1960, from the Consulting Engineers, MESSRS. W. S. ATKINS AND PARTNERS, 15B Victoria Street, London, S.W.1, on payment of a deposit of £15 by cheque made payable to the Minister of Transport. The deposit will be returned if a bona-fide Tender is submitted and not subsequently withdrawn.

Tenders should be sent in a sealed, registered envelope endorsed "Tender for Apex Corner, Hendon," but not bearing any name or mark indicating the sender, addressed to the Assistant Secretary, Ministry of Transport, 21-27 Hereford Road, London, W.2, to arrive not later than 4 p.m. on WEDNESDAY, 30th March, 1960.

The Minister does not bind himself to accept the lowest or any Tender.

H. GILLENDER,  
An Assistant Secretary.

## SCOTTISH HOME DEPARTMENT.

## ROADS DIVISION.

## CROFTER COUNTIES SCHEME.

## ARGYLL COUNTY COUNCIL.

## CONTRACT NO. A.9B.

CAIRNDOW-STRACHUR-TOWARD ROAD,  
ROUTE A.815.  
(STRACHUR-LOCH ECK SECTION). Length 4.13 Miles.

The Council invite TENDERS for the RECONSTRUCTION of the ABOVE SECTION of ROUTE A.815. Drawings and Specification may be seen at the Offices of the Supervising Engineer, Scottish Home Department (Roads Division), Glenshellach Road, Oban; and the Chief Road Engineer, Scottish Home Department (Roads Division), Bankhead Avenue, Slighthill, Edinburgh, 11.

Contract documents and further information may be obtained from the Chief Road Engineer at the above address on depositing £15, which deposit will only be returned if a bona-fide Tender is submitted and not subsequently withdrawn. Cheques should be made payable to the Queen's and Lord Treasurer's Remembrancer.

Sealed Tenders, endorsed "Contract No. A.9B—Cairndow-Strachur Toward Road," must be lodged with the Secretary, Scottish Home Department, Broomhouse Drive, Saughton, Edinburgh, 11, not later than 4 p.m. on 14th MARCH, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

A. D. JACKSON,  
County Clerk.County Offices,  
Lochgillhead, Argyll,  
9th February, 1960.

## DERBYSHIRE COUNTY COUNCIL.

## BRIDGES AND HIGHWAYS DEPARTMENT.

## TENDERS FOR MATERIALS.

TENDERS are invited for the SUPPLY of the FOLLOWING during the year ending 31st March, 1961:

- (1) Dry Stone and Slag, Wet-mix Hardcore, Coated Macadam, Cold Asphalt, Stone and Gravel Chippings, Concrete Aggregate and Sand; (2) Tar and Bituminous Compounds; (3) Bricks; (4) Cement; (5) Tools and Road Brushes; (6) Concrete Kerbs, Pipes, Flags, Posts, and Ready-mixed Concrete; (7) Protective Clothing; (8) Glazed Stoneware Pipes; (9) Road Traffic Signs; (10) Cast Manhole Covers and Gully Grates and Frames; (11) Hired Plant.

Forms of Tender from the undersigned. State supplies for which forms are required.

Sealed Tenders, endorsed "Tender for —, B. and H.," to Clerk of the County Council, County Offices, Matlock, Derbyshire, by 26th FEBRUARY, 1960.

S. MEHEW,  
County Surveyor.County Offices,  
Matlock, Derbs.

## BOROUGH OF MANSFIELD.

## STREET LIGHTING.

TENDERS are invited for the ERECTION, WIRING and PAINTING ONLY of approx. 75 25ft. Mounting Height Columns and approx. 100 15ft. Mounting Height Columns.

Tender documents may be obtained from the Borough Engineer and Surveyor, E. T. CROWE, B.Sc., A.M.I.C.E., Carr Bank, Mansfield, and are to be returned to the undersigned not later than the First Post on TUESDAY, 1st March, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

A. C. SHEPHERD,  
Town Clerk.

## BOROUGH OF ACTON.

## EDUCATION COMMITTEE.

## ANNUAL REPAIRS, 1960/61.

## RESURFACING OF SCHOOL PLAYGROUNDS.

TENDERS are invited for the RESURFACING of THREE SCHOOL PLAYGROUNDS in the Borough. Copies of the Specification and details can be obtained from the Borough Engineer, Town Hall, Acton, W.3.

Tenders, endorsed "Resurfacing of School Playgrounds," must be returned by THURSDAY, 24th March, 1960, to the BOROUGH EDUCATION OFFICER, Town Hall, Acton, W.3.

## CITY OF MANCHESTER.

TENDERS invited for ALTERATIONS to WITHERINGTON LIBRARY.

Bill of Quantities from CITY ARCHITECT, P.O. Box 488, Town Hall, Manchester.

Tenders returnable by 9th MARCH.

## CITY OF MANCHESTER.

TENDERS invited for the SUPPLY and ERECTION of METAL BALUSTRADES at MOSTON COLLEGE FOR FURTHER EDUCATION.

Specification and Drawings from CITY ARCHITECT, P.O. Box 488, Town Hall. Tenders returnable by MARCH 2nd.

## CONTRACTS

## METROPOLITAN BOROUGH OF WANDSWORTH.

## HOUSING AT CLAPHAM.

Contractors wishing to TENDER for ERECTION of 32 FLATS in TWO 4-STORY BLOCKS at ST. ALPHONSUS ROAD, Clapham, should submit names to me by 25th FEBRUARY, 1960, giving details of experience, plant, and technical and supervisory staff available, together with names of two technical and two financial referees. Bills of Quantities will be issued to selected contractors in due course.

Drawings may be examined at Office of Borough Engineer and Architect, Municipal Buildings, Wandsworth, S.W.18.

J. NOEL MARTIN,  
Town Clerk.Municipal Buildings,  
Wandsworth, S.W.18.

## BOROUGH OF SALTASH.

The SALTASH BOROUGH COUNCIL invite TENDERS for the FOLLOWING:

- (a) Roadstone and Tarmacadam.
  - (b) Road Haulage.
  - (c) Hire of Stone or Diesel Rollers.
  - (d) Supplying and Spraying of Road Tar.
- Contracts will be for 12 months from 1st April, 1960. Quarry owners should state the number of quarries from which they wish to offer materials, as a separate form is required for each quarry.

Conditions of Contract and Tender Form obtainable from the Borough Engineer, Church House, Saltash, returnable by THURSDAY, 25th February, 1960.

A. GORDON BELLINGHAM,  
Town Clerk.Church House,  
Saltash,  
9th February, 1960.

## CITY OF BIRMINGHAM.

## SALVAGE COMMITTEE.

TENDERS are invited for the SUPPLY and DELIVERY of 8,000 2½ cu. ft. TAPER DUSTBINS and LIDS, to British Standard Specification 792:1947. Full details of the requirements of the Corporation may be obtained from the General Manager, Salvage Department, Civic Centre, Broad Street, Birmingham, 1. Closing date for Tenders: Noon, MONDAY, 29th February, 1960.

T. H. PARKINSON,  
Acting Town Clerk.Council House,  
Birmingham, 1.

## CITY OF BIRMINGHAM.

## TO PUBLIC WORKS CONTRACTORS.

The HOUSEBUILDING COMMITTEE invite TENDERS on a Fixed-price Basis for a Measure and Value Contract for the CONSTRUCTION of ROADS and the CONSTRUCTION of FOUL and SURFACE WATER SEWERS, together with incidental work, on KINGSBURST HALL HOUSING ESTATE (PART 4). Copies of the Road and Sewerage Specification, Bills of Quantities and Forms of Tender may be obtained on payment of £2.2s. at the Office of SIR HERBERT J. MANZONI, City Engineer and Surveyor, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. The deposit will be returned on receipt of a bona-fide Tender.

Plans for the Road and Sewerage Works can be seen at Rooms 339 and M.39, respectively, Civic Centre, Birmingham, 1.

Tenders, enclosed in the envelopes provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. B.31), Council House, Birmingham, 1, not later than 12 Noon on WEDNESDAY, 2nd March, 1960, when they will be opened. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

T. H. PARKINSON,  
Acting Town Clerk.Council House,  
Birmingham, 1.

## SUNBURY - ON - THAMES URBAN DISTRICT COUNCIL.

IMPROVEMENT OF GASTON BRIDGE ROAD (A.244)  
AT THE MUSHROOM FARM.

TENDERS are invited for the REALIGNMENT and RECONSTRUCTION of the CARRIAGEWAY and FOOTPATHS in the ABOVE STREET with Two-course Hot Rolled Gravel Asphalt Carriageway, Concrete Kerbs and Channels, Bitumen Gravel Macadam Footpaths, Grass Verges, Concrete Surface Water Drainage, and ancillary works.

Drawings may be inspected at the Office of the Engineer and Surveyor, from whom Tender documents may be obtained.

Tenders must be returned to the undersigned, in plain sealed envelopes, not later than Noon on MONDAY, 7th March, 1960.

T. WATTS,  
Clerk of the Council.Council Offices,  
Sunbury-on-Thames,  
18th February, 1960.

## ROSS AND WHITCHURCH RURAL DISTRICT COUNCIL.

## WORKS OF WATER SUPPLY.

COMPREHENSIVE SCHEME—STAGE 2—  
CONTRACT 8.

TENDERS are invited for the CONSTRUCTION of approx. 12 Miles of SPUN-IRON WATER MAINS of 8in., 4in. and 3in. dia., together with the CONSTRUCTION of TWO REINFORCED CONCRETE RESERVOIRS of 250,000 and 40,000 gallons capacity, the CONSTRUCTION of TWO PUMPING STATIONS and incidental works, in accordance with the Drawings, Specifications and Bills of Quantities prepared by the Engineers, MESSRS. A. H. S. WATERS AND PARTNERS, of 25 Temple Row, Birmingham, 2. The Drawings may be seen at, and the General Conditions of Contract, Specification, Bills of Quantities and Form of Tender may be obtained from, the Offices of the undersigned, or of the Engineers, on or after 15th FEBRUARY, 1960, on payment of a deposit of Five Guineas, which will be refunded upon receipt of a bona-fide Tender and the return of all documents.

Sealed Tenders, on the form supplied and in the endorsed envelopes provided, are to be delivered to me at my Office not later than Noon on MONDAY, 14th March, 1960.

The Council does not undertake to accept the lowest or any Tender.

H. B. REYNOLDS,  
Clerk of the Council.Woodside,  
Ross-on-Wye,  
Herefordshire,  
February, 1960.

## CONTRACTS

## BOROUGH OF LOWESTOFT.

## TRANSPORT DEPARTMENT.

TENDER FOR THE SUPPLY OF GOODS, 1960-61.

TENDERS are invited for the SUPPLY of ALL or ANY of the FOLLOWING GOODS to the Transport Department of the Lowestoft Corporation during the period April 1st, 1960, to the 31st March, 1961:

- Fuel Oil.
- Lubricating Oils.
- Greases.
- Paraffin.
- Brake Linings.
- Coke.

Further particulars, Specifications, Forms of Tender and General Conditions may be obtained on application to the Transport Administrative Officer, Transport Department, Rotterdam Road, Lowestoft, Suffolk. Tenderers are asked to indicate, if possible, when so applying, the particular goods for which they wish to have the opportunity of tendering.

Tenders, upon the forms provided, must be addressed to the undersigned and must be received at the Town Hall, Lowestoft, not later than 12 Noon on SATURDAY, the 12th March, 1960. No Tender will be received unless in a sealed envelope, endorsed "Tender for Goods—Transport." The envelope should not bear any indication of the identity of the sender. The Corporation do not bind themselves to accept the lowest or any Tender.

F. B. NUNNEY,  
Town Clerk.Town Hall,  
Lowestoft,  
Suffolk,  
February, 1960.

## CITY AND COUNTY OF THE CITY OF LINCOLN.

TENDERS are invited for the SUPPLY of the FOLLOWING MATERIALS for the 12 months ending 31st March, 1961:

- (1) Tared Slag.
- (2) Gravel and Sand.
- (3) Emulsion for Spraying Road Surfaces (Cold only).
- (4) Concrete Kerb, Channel and Flags.
- (5) Salt Glazed Stoneware Pipes and Gully Pots.
- (6) Brushes (Scavenger Brushes and Refills for Lacre, Lewin and Karrier Sweeper Collectors).
- (7) Cement.
- (8) Bituminous Slag.
- (9) Disinfectant Powder and Toilet Paper.
- (10) Dustbins.

Forms of Tender may be obtained on application to the City Engineer and Surveyor, Silver Street, Lincoln.

Sealed Tenders, suitably endorsed, must be delivered to the undersigned, in plain sealed envelopes bearing no name or mark indicating the sender, not later than 5 p.m. on FRIDAY, 26th February, 1960.

J. HARPER SMITH,  
Town Clerk.Town Clerk's Office,  
Lincoln,  
5th February, 1960.

## CITY OF LEEDS.

## HIGHWAYS DEPARTMENT.

The HIGHWAYS COMMITTEE of the LEEDS CITY COUNCIL invite TENDERS for:

- KEENING, TARMACADAM and in-situ CONCRETE FOOTPATHS, TARMACADAM and CONCRETE CARRIAGEWAYS, etc., in the FOLLOWING PRIVATE STREETS:—

- North Terrace.
- Primley Park View (Part).
- Staithe Avenue.
- Staithe Close.

Forms of Tender and Bills of Quantities may be obtained upon payment of a deposit of One Guinea, which amount will be returned upon receipt of a bona-fide Tender. Plans, Specifications and copies of the documents forming the contract may be inspected upon application to the Highways Engineer, 155 Kirkstall Road, Leeds, 4.

Tenders will be considered only when submitted sealed in the envelope provided, endorsed "Highways Department—Tender for Contractors' Works," and not bearing any name or mark indicating the sender. Tenders must be delivered at the Town Clerk's Office (Committee Department), Room 57, Civic Hall, Leeds, 1, not later than 10 a.m. on THURSDAY, the 3rd March, 1960.

The lowest or any Tender will not necessarily be accepted.

W. J. HISCOCK,  
Highways Engineer.

February, 1960.

## CANNOCK URBAN DISTRICT COUNCIL.

## TENDERS FOR ANNUAL SUPPLIES.

TENDERS are invited for the SUPPLY and DELIVERY of the FOLLOWING MATERIALS for the period ending March 31st, 1961:

- (1) Cold Asphalt.
- (2) Bituminous Macadam.
- (3) Tarmacadam.
- (4) Refined Tar/Bitumen Compound.
- (5) Gravel.
- (6) Building and Concrete Sand.
- (7) Hydraulically Pressed Concrete Kerbs and Channel Blocks.
- (8) Road Salt.
- (9) Chippings for Tarspraying.
- (10) Tools and Ironmongery.
- (11) Premixed Waterbound Macadam.
- (12) Stores and Drysalteries.
- (13) Protective Clothing.
- (14) Tasslings.
- (15) Cement.
- (16) Bricks.
- (17) Concrete Pipes and Gullies.
- (18) Stoneware Pipes and Gullies.

Forms of Tender and particulars may be obtained on application to the Engineer and Surveyor, Council House, The Green, Cannock.

TENDERS are also invited for the SUPPLY and DELIVERY of PETROL, OILS and GREASES, forms for which can be obtained from the Cleansing and Transport Superintendent, Council Offices, Church Street, Cannock.

All applications must be accompanied by stamped addressed foolscap envelopes.

Tenders, enclosed in a plain sealed envelope, bearing no name or mark to indicate the sender, endorsed "Tender for —," as the case may be, addressed to the undersigned, together with the necessary samples to be received, not later than 12 Noon on MONDAY, 14th March, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

H. C. ALLEN,  
Clerk of the Council.Council House,  
The Green,  
Cannock, Staffs.  
8th February, 1960.



## CONTRACTS

COUNTY BOROUGH OF NORTHAMPTON.  
ROAD AND SEWER WORKS.

TENDERS are invited for the CONSTRUCTION of approx. 3,450 sq. yd. of CONCRETE CARRIAGEWAY and approx. 460 lin. yd. of FOUL and SURFACE WATER SEWERS, together with Kerbs, Manholes, Gullies, and incidental works, to form a new road off Thornton Road.

Form of Tender, etc., may be obtained from the Borough Engineer, Guildhall, Northampton, on payment of £2 2s., returnable on receipt of a bona-fide Tender not subsequently withdrawn, and must reach me by 10 a.m. on FRIDAY, 11th March, 1960.

C. E. VIVIAN ROWE,  
Town Clerk.

## BOROUGH OF DORCHESTER.

## WATERWORKS DEPARTMENT.

The COUNCIL invite TENDERS from experienced contractors for the LAYING of approx. 2,000 lin. yd. of 9in. dia. WATER MAIN. Copies of the Specification, Bills of Quantities and Form of Tender may be obtained from the Borough Engineer, Municipal Offices, North Square, Dorchester, on payment of Two Guineas, which will be refunded on receipt of a bona-fide Tender and the return of all documents. Tenders, in plain sealed envelopes, endorsed "Water Main," must reach the undersigned not later than Noon on SATURDAY, 12th March, 1960. The Council do not bind themselves to accept the lowest or any Tender.

F. P. LAKE SYDENHAM,  
Town Clerk.

## BOROUGH OF TWICKENHAM.

## PRIVATE STREET WORKS.

TENDERS are invited for the MAKING-UP of the FOLLOWING ADJOINING PRIVATE STREETS:

Coombe Crescent, Coombe Road and South Road (Sections 1 and 2), Hampton. The works comprise approx. 350 lin. yd. of 9in. Sewer, 3,300 sq. yd. of Carriageway Foundation (Hardcore), 900 lin. yd. of Kerbing and Channelling, 1,500 sq. yd. of Paving, and other incidental works. Plans may be seen on Specification, Bills of Quantities and Form of Tender may be obtained on application to the Borough Engineer, Municipal Offices, Twickenham, and on the payment of Two Guineas deposit, which will be returned on receipt of a bona-fide Tender.

Tenders, in the envelope provided, endorsed "Private Street Works," and not bearing any mark indicating the tender, must be delivered to the undersigned not later than 10 a.m. on MONDAY, 7th March, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

W. H. JONES,  
Town Clerk.

Municipal Offices,  
Twickenham,  
3rd February, 1960.

STROUD URBAN DISTRICT COUNCIL.  
CHAIN LINK FENCING—LONDON ROAD DEPOT.

TENDERS are invited for the PROVISION and ERECTION of approx. 375 lin. yd. of CHAIN LINK FENCING.

Specification and Bill of Quantities may be obtained from the Engineer and Surveyor.

Tenders, on the form provided, and enclosed in a sealed envelope endorsed "Tender for Chain Link Fencing," must be returned not later than the First Post, on TUESDAY, 1st March, 1960, to the undersigned.

The Council do not bind themselves to accept the lowest or any Tender.

H. S. GIBBONS,  
Clerk of the Council.

Council Chambers,  
High Street,  
Stroud, Glos.

## UPTON - UPON - SEVERN RURAL DISTRICT COUNCIL.

## CASTLEMORTON SEWERAGE AND SEWAGE DISPOSAL.

FIRM-PRICE TENDERS are invited for the EXECUTION of the FOLLOWING WORKS:—

The Laying of approx. 1,037 yd. of 6in. dia. and approx. 1,037 yd. of 4in. dia. Stoneware Pipe, the Construction of 14 Precast Concrete Manholes, and the Construction of a Sewage Disposal Works comprising Grit Chamber, Upward Flow Sedimentation Tank, and Collection Chamber, Filter Bed, Humus Tank, Sludge Beds and other appurtenant works.

Form of Tender and contract documents may be obtained from the Surveyor, Council Offices, Upton-upon-Severn, Worcester, on payment of £5 5s., which will be returned on receipt of a bona-fide Tender, not subsequently withdrawn, and the return of contract documents.

Tenders, in the envelopes provided, together with contract documents, to be delivered to the undersigned not later than Noon on SATURDAY, 19th March, 1960.

The Council does not bind itself to accept the lowest or any Tender received.

E. A. TURNER,  
Clerk of the Council.

Council Offices,  
Upton-upon-Severn,  
Worcester,  
10th February, 1960.

## NANTWICH RURAL DISTRICT COUNCIL.

## PILE AND BEAM FOUNDATIONS—WISTASTON BUNGALOWS.

TENDERS are invited from contractors experienced in similar works for CARRYING OUT PILE AND BEAM FOUNDATION WORK TO EIGHT BUNGALOWS at Wistaston.

The work comprises 60 Piles—depth 10ft. to 15ft.—together with the necessary Reinforced Caps and Beams to Foundations.

Specification, Bill of Quantities and Form of Tender may be obtained from the Engineer and Surveyor, at the address below, on receipt of a deposit of One Guinea, which will be returned on receipt of a bona-fide Tender and return of all documents. Tenders, in plain sealed envelopes, endorsed "Tender—Piled Foundations," not later than First Post on SATURDAY, 26th March, 1960.

F. E. DAVENPORT,  
Clerk of the Council.

Council Offices,  
Stapeley House,  
Near Nantwich,  
11th February, 1960.

## CONTRACTS

COUNTY BOROUGH OF BURNLEY.  
PRIVATE STREET IMPROVEMENT WORKS—THREE STREETS.

TENDERS are invited from public works contractors for the MAKING-UP in PITCHING and BITUMEN MACADAM, of the FOLLOWING STREETS:

- (1) Fir Grove Road—length 66 lin. yd.
- (2) Athletic Street—length 131 lin. yd.
- (3) Irene Street—length 41 lin. yd.

Copies of Special Conditions of Contract, Specification, Bill of Quantities and Form of Tender may be obtained on application to the Borough Engineer and Surveyor, 22/24 Nicholas Street, Burnley, on payment of a deposit of One Guinea, which will be returned on receipt of a bona-fide Tender or the return of all documents supplied.

General Conditions of Contract and Drawings may be inspected at the above office during normal office hours.

Tenders must be returned to the undersigned not later than 9 a.m. on FRIDAY, the 4th March, 1960. The Council does not bind itself to accept the lowest or any Tender.

C. V. THORNLEY,  
Town Clerk.

## BOROUGH OF HARROGATE.

## PRIVATE STREET IMPROVEMENT WORKS.

TENDERS are invited for the MAKING-UP of one or more of the FOLLOWING PRIVATE STREETS:

- (a) Firs Avenue, 130 lin. yd.
- (b) Firs Drive, 280 lin. yd.
- (c) Firs Gate, 150 lin. yd.
- (d) Firs Close, 55 lin. yd.

The work comprises Kerbing and Flagging to the Footpaths, and Surfacing the Carriageway in Tarmacadam and Fine Cold Asphalt.

Plans and Conditions of Contract may be inspected at the Office of the Borough Engineer, Municipal Offices, Harrogate, from whom Specification, Bills of Quantities and Forms of Tender may be obtained.

Sealed and endorsed Tenders, on the official form, together with the priced Bills of Quantities, are to be delivered in the envelope provided to the Borough Engineer not later than 10 a.m. on FRIDAY, 26th February, 1960.

The lowest or any Tender will not necessarily be accepted.

C. E. FELLOWS,  
Borough Engineer.  
Municipal Offices,  
Harrogate,  
11th February, 1960.

## BOROUGH OF HYTHE.

## IMPROVEMENTS TO ROYAL MILITARY CANAL OUTFALL.

Contractors wishing to TENDER for the ABOVE SCHEME are requested to submit their names to the Borough Surveyor at the address below, not later than First Post, FRIDAY, 26th February, 1960, and deposit the sum of £5 5s., the refund of which will be conditional upon the submission of a bona-fide Tender, accompanied by all the documents issued, Cheques should be made payable to Hythe Corporation.

It is anticipated that copies of the Form of Tender and Bill of Quantities will be dispatched on, or about, the 26th February, 1960, and a date will then be specified by which the Tenders must be returned to the undersigned.

The Corporation does not bind itself to accept the lowest or any Tender.

J. NOWELL,  
Town Clerk.

Municipal Offices,  
Hythe, Kent,  
11th February, 1960.

## BOROUGH OF ILKESTON.

## REPAINTING OF CORPORATION HOUSES.

TENDERS are invited for the REPAINTING of the FOLLOWING:—

- 193 Houses on the Kirk Hallam Estate.
- 256 Houses on the Green Lane Estate.
- 103 Houses on the Cotmanhay Estate.

Specifications, Conditions of Contract and Forms of Tender may be obtained from the Borough Surveyor, Town Hall, Ilkeston.

Tenders, in plain sealed envelopes, endorsed "Painting Tender," but not bearing any name or mark indicating the tender, must be received by me not later than 12 Noon on MONDAY, 7th March, 1960.

The Borough Council does not bind itself to accept the lowest or any Tender.

J. YATES,  
Town Clerk.

Town Hall,  
Ilkeston,  
12th February, 1960.

## CITY OF LIVERPOOL.

## WATER DEPARTMENT.

## TRYWERYN DAM AND ANCILLARY WORKS.

TENDERS invited for the CONSTRUCTION, in the TRYWERYN VALLEY, MERIONETHSHIRE, North Wales, for EARTH DAM some 150ft. high and containing some 3 million cu. yd. of materials, together with Tunnels, Concrete Structures and ancillary works.

Documents from Messrs. BINNIE, DEACON AND GOURLEY, Artillery House, Artillery Row Westminster, S.W.1, between 1st March and 1st April, 1960. Deposit £2 2s., payable City Treasurer, Liverpool. Tenders returnable by Noon, 16th MAY, 1960. (J.6045.)

THOMAS ALKER,  
Town Clerk.

## CHESTERTON AND ST. IVES JOINT

## WATER BOARD.

## BOURN PUMPING STATION.

FIXED-PRICE LUMP-SUM TENDERS are invited from experienced contractors for the SINKING of a BOREHOLE through the Bottom of an existing Well, together with ancillary works.

The Specification, Drawings, and Form of Tender may be obtained from the Engineer to the Board, County Hall, Hobson Street, Cambridge, on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

The General Conditions of Contract may be inspected at the Engineer's Office during normal office hours.

Tenders, in plain sealed envelopes endorsed "Bourn Pumping Station," must be received by the undersigned not later than Noon on TUESDAY, 15th March, 1960. The Board do not bind themselves to accept the lowest or any Tender.

W. H. HAYWARD,  
Clerk of the Board.

County Hall,  
Hobson Street,  
Cambridge.

## CONTRACTS

HERTFORDSHIRE COUNTY COUNCIL.  
DIVERSION OF HUNTERS LANE, LEAVESDEN.

TENDERS are invited for the ABOVE CONTRACT. The works, which consist of the Construction of ½ mile of New Carriageway, comprise Site Clearance, 6,000 cu. yd. Excavation, 1,000 lin. yd. Footway Edging, 3,000 lin. yd. Kerbing, 1,750 tons Asphalt, 2,500 cu. yd. Lean-mix Concrete, and 800 lin. yd. of Concrete Post and Chain Link Fencing.

Tender documents may be obtained from the County Surveyor, County Hall, Hertford, on or after 22nd FEBRUARY, 1960, and Drawings may be inspected by appointment at his Office after the same date. Tenders are to be returned to the CLERK OF THE COUNTY COUNCIL not later than 10 a.m. on WEDNESDAY, 9th March, 1960.

The County Council are not bound to accept the lowest or any Tender.

County Hall,  
Hertford.

## BOROUGH OF COLWYN BAY.

## ROAD SURFACE DRESSING CONTRACT.

TENDERS are invited for the FOLLOWING WORK to be carried out during the year ending 31st March, 1961:

For the Supply of all Materials and for Tar-painting and Spreading of Chippings on Roads within the Borough, approx. 100,000 super. yd.

Tender documents may be obtained from MR. H. WILMAN, A.M.I.C.E., Borough Engineer and Surveyor, Whalley Range, Lansdowne Road, Colwyn Bay.

Tenders, in plain sealed envelopes, endorsed "Surface Dressing Contract," must be delivered to the undersigned not later than 12 Noon on MONDAY, 29th February, 1960.

HAROLD E. BRAITHWAITE,  
Town Clerk.

Town Hall,  
Colwyn Bay,  
9th February, 1960.

## BOROUGH OF EDMONTON.

TENDERS are invited for the CONSTRUCTION of a NINE-STORY BLOCK, comprising 40 Maisonnettes and Five Dwellings for Aged Persons, together with 24 Garages in Three Blocks, within the Borough.

A copy of the Drawings, Conditions of Tender, and Conditions of Contract may be inspected at the Office of the Borough Architect.

Applications for Form of Tender and Bills of Quantities, accompanied by a deposit of Two Guineas (which will be refunded only on receipt of a bona-fide Tender and other Contract documents), must be made to the Borough Architect, Town Hall, Edmonton, not later than First Post on MONDAY, 29th February, 1960.

Tenders, sealed in the endorsed envelope provided, must be delivered to the undersigned not later than 12 Noon on MONDAY, 21st March, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

H. BACKHOUSE,  
Town Clerk.

## BOROUGH OF GILLINGHAM.

## SURFACING IN HOT ROLLED ASPHALT.

TENDERS are invited for REGULATING and SURFACING the CARRIAGEWAYS of the UNDERMENTIONED ROADS IN HOT ROLLED ASPHALT:

- (1) Trunk Road (A.2)—approx. 5,500 sq. yd.
- (2) Barnsole Road (Part)—approx. 4,500 sq. yd.
- (3) Church Street—approx. 2,500 sq. yd.

Contractors wishing to submit Tenders should apply for the necessary documents to the Borough Engineer, Municipal Buildings, Gillingham, Kent, enclosing a cheque for £3 3s., made payable to the Gillingham Corporation, which will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "Tenders—Asphalt Surfacing," must be received by the undersigned not later than Noon on TUESDAY, the 1st March, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

FRANK HILL,  
Town Clerk.

Municipal Buildings,  
Gillingham, Kent,  
9th February, 1960.

## HITCHIN URBAN DISTRICT COUNCIL.

## PROVISION AND ERECTION OF PRECAST CONCRETE GARAGES, ETC.

The Council invite TENDERS for the SUPPLY and ERECTION of 73 GARAGES on four separate Housing Sites, together with about 1,600 sq. yd. of Concrete Aprons, 2,700 sq. yd. of Surfaced Housing Courts, Skelaway Drainage, and appurtenant works.

Specification and Form of Tender may be obtained from, and Conditions of Contract and Plans may be inspected at the Surveyor's Office, Council Offices, Brand Street, Hitchin, on payment of a deposit of £2 2s. (returnable on receipt of a bona-fide Tender not subsequently withdrawn).

Tenders must be delivered to me, in a plain sealed envelope endorsed "Estate Garages," not later than 11th MARCH, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

W. WILSON,  
Clerk of the Council.

Council Offices,  
Brand Street,  
Hitchin, Herts.,  
11th February, 1960.

## WATFORD RURAL DISTRICT COUNCIL.

## OXHEY PAVILION.

TENDERS are invited for the CARRYING OUT of EXTENSIVE ALTERATIONS and ADDITIONS to the OXHEY PAVILION in GREEN LANE, Oxhey, including the Changing Accommodation, Refreshment Room, Lavatories, Drainage Work, etc., in accordance with Plans which may be inspected at the Council Offices.

Contractors should apply by the 5th MARCH, 1960, for the supply of copies of the Bills of Quantities and Form of Tender, which will be issued after that date. Applications must be accompanied by a deposit of Two Guineas (£2 2s.), which will be resuable after the submission of a bona-fide Tender and the return of all documents submitted.

Directions for the submission of Tenders will be issued to applicant contractors, with copies of the Tender documents.

The Council do not bind themselves to accept the lowest or any Tender, and security will be required for the due performance of the Contract.

S. A. NICHOLSON,  
Clerk to the Council.

Council Offices,  
Wynward House,  
59 Langley Road,  
Watford, Herts.

## CONTRACTS

## EAST RIDING OF YORKSHIRE COUNTY COUNCIL.

LIVERPOOL-LEEDS-HULL TRUNK ROAD, A.63.

## IMPROVEMENT WEST OF GILBERDYKE RAILWAY BRIDGE.

TENDERS are invited for the ABOVE IMPROVEMENT a length of approx. 600yd. The works include the Provision and Consolidation of Filling, Drainage, Kerbing, and Carriageway Construction.

Forms and Conditions of Tender, Conditions of Contract, Specification and Bill of Quantities may be obtained from the County Surveyor, County Hall, Beverley, on payment of a deposit of Two Pounds, which will be returned to any unsuccessful bona-fide tenderer who returns all documents supplied and whose Tender is not withdrawn. The deposit will be returned to the successful tenderer on completion of the Contract documents. Cheques, etc., to be made payable to the East Riding County Council.

Drawings and other relevant details may be examined at the Town Roads Office of the County Surveyor, Westminster Bank Chambers, Laigate, Beverley, at any time during customary office hours. Tenders, in a plain sealed envelope, which will be provided by the Council, endorsed "Tender for Road Improvement—West of Gilberdyke Bridge," and bearing no mark indicating the sender, are to be delivered to the undersigned not later than 4 p.m. on MONDAY, 14th March, 1960.

THOMAS STEPHENSON,

Clerk of the County Council.

County Hall,

Beverley, Yorks.

11th February, 1960.

## BOROUGH OF BURY ST. EDMUNDS.

## GRAVEL ASPHALT BASE COURSE AND WEARING COURSE.

TENDERS are invited for the SUPPLY of approx. 1,000 tons of BASE COURSE GRAVEL ASPHALT and for the SUPPLY AND LAYING by MECHANICAL SPREADER of approx. 8,000 sq. yd. WEARING COURSE GRAVEL ASPHALT.

Copies of the Specification and Form of Tender may be obtained, free of charge, from the Borough Engineer and Surveyor, to whom Tenders must be returned not later than 12 Noon on WEDNESDAY, 9th March, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

G. S. STANDLEY,

Borough Engineer and Surveyor.

Borough Offices,

Bury St. Edmunds.

## CITY OF BIRMINGHAM.

## TO BUILDING CONTRACTORS.

## CONTRACT 706—27 ONE- AND TWO-STOREY DWELLINGS—ARDENCOTE ROAD, KING'S HEATH.

THE HOUSEBUILDING COMMITTEE invite FIRM-PRICE TENDERS for the ERECTION OF THE ABOVE. Bills of Quantities and Form of Tender will be forwarded on payment of £2 2s. at the Office of A. G. SHEPPARD FIDLER, City Architect, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. Application should be made by 23rd FEBRUARY, 1960.

Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's Office during normal working hours.

The deposit will be returned on receipt of a bona-fide Tender, or on notification of inability to tender, together with the return of the documents not later than three days before the date for receipt of Tenders.

Tenders, enclosed in the envelope provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. B.31), Council House, Birmingham, 1, not later than 12 Noon on FRIDAY, the 25th March, 1960. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

T. H. PARKINSON,

Acting Town Clerk.

Council House,

Birmingham, 1.

## ALDERLEY EDGE URBAN DISTRICT COUNCIL.

## LONDON ROAD, A.34—ALDERLEY EDGE IMPROVEMENT FROM JUNCTION WITH HEYES LANE TO JUNCTION WITH STEVENS STREET.

TENDERS, on a Fixed-price Basis, are invited for the ABOVE ROAD IMPROVEMENT WORK, consisting of Excavation and Foundations to Additional Width of Carriageway; Precast Concrete Kerbing (approx. 404 lin. yd.); Reshaping Carriageway with Bituminous Macadam and Surfacing with Cold Asphalt Area (approx. 2,500 sq. yd.); Reshaping and Surfacing Footways with Coated Macadam Area (approx. 1,360 sq. yd.), together with Drainage and ancillary works.

The Drawings may be inspected, and copies of the Conditions of Contract, Specification, Bill of Quantities and Form of Tender may be obtained, on payment of a deposit of £2 2s. (returnable on receipt of a bona-fide Tender), from the Surveyor, Council Offices, Alderley Edge.

Tenders, in plain sealed envelopes endorsed "London Road Improvement," are to be received by the undersigned not later than Noon on FRIDAY, the 18th March, 1960.

B. ANSON,

Clerk of the Council.

Council Offices,

Alderley Edge.

## UCKFIELD RURAL DISTRICT COUNCIL.

## MAIN DRAINAGE—HARTFIELD.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION of approx. 7,380yd. of 6in. dia. STONEWARE SEWERS and Manholes, together with the Adaptation of existing Tanks as Sedimentation and Storm Water Tanks, the Construction of a Percolating Filter, Humus Tanks, and Sludge Drying Beds.

Tender documents may be obtained from the Surveyor at the Council Offices upon payment of a deposit of Two Guineas, which will be returned upon receipt of a bona-fide Tender, not subsequently withdrawn, and all the documents issued.

Tenders, in the envelopes provided, endorsed "Main Drainage—Hartfield," must be received by the undersigned not later than Noon on THURSDAY, the 17th March, 1960.

The Council are not bound to accept the lowest or any Tender.

P. C. DURRANT,

Clerk of the Council.

Council Offices,

Beacon Road

Crowborough,

Sussex.

## CONTRACTS

## BOROUGH OF CHARD.

## TOUCHSTONE LANE IMPROVEMENT SCHEME.

TENDERS are invited for the FOLLOWING WORKS. (Approx.):

- 290 lin. yd. Hedge Removal.
- 1,000 cu. yd. Excavating Over Area.
- 1,100 super. yd. Prepare and Shape Carriageway.
- 1,100 super. yd. Clinker 3in. thickness.
- 1,100 super. yd. Granular Base 12in. thickness.
- 1,000 super. yd. Scarifying Surface.
- 2,100 super. yd. Two-coat Tarmacadam.
- 2,100 super. yd. Hot Bitumen Dressing.
- 600 super. yd. 18in. Stone Walls, together with Concrete Foundations.
- 850 super. yd. Single Course Tarmacadam to Footpaths.
- 400 lin. yd. 6in. Surface Water Sewers.
- 12 Gullies.
- 4 Manholes.

and other incidental works. Specifications and Bill of Quantities may be obtained from the Borough Surveyor, Municipal Offices, High Street, Chard, upon payment of £10 10s., which will be refunded upon receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "Tender—Touchstone Lane Improvement," must be delivered to the undersigned not later than Noon on MONDAY, 14th March, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

F. W. SEARLE,

Town Clerk.

Municipal Offices,

High Street,

Chard, Som.

8th February, 1960.

## BOROUGH OF SWINDON.

## TRADITIONAL BUILDING PROGRAMME.

My COUNCIL propose to undertake a large Traditional Housebuilding Programme during the next two years and would welcome inquiries from firms prepared to BUILD about 400 DWELLINGS during this period on large sites within the town. There is a strong probability of further continuity.

Firms having the necessary resources, especially so far as manpower is concerned (it may be necessary to employ large numbers of building labour) are requested to get in touch with me.

D. MURRAY JOHN,

Town Clerk.

Civic Offices,

Swindon, Wilts.

11th February, 1960.

## ESHER URBAN DISTRICT COUNCIL.

## EXTERNAL PAINTING OF 38 COUNCIL HOUSES.

## CONTRACT NO. 297.

TENDERS are invited from painting contractors for the EXTERNAL REPAINTING of 20 HOUSES, SIX BUNGALOWS and 12 ALLOS at GRANGE ROAD and BRENDE GARDENS, West Molesey.

The Form of Tender, Conditions of Contract and Specification may be obtained from the Engineer and Surveyor, Council Offices, Escher, on payment of a deposit of One Guinea, which will be refunded on receipt of a bona-fide Tender, together with the return of all documents in good condition.

Tenders, on the prescribed form enclosed in the envelope provided, endorsed "Contract No. 297—External Repainting," and bearing no name or mark indicating the sender, must be returned to the undersigned and received by him not later than 5 p.m. on TUESDAY, 15th March, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

FREDERICK EDWARDS,

Clerk of the Council.

Council Offices,

Escher, Surrey.

25th January, 1960.

## SHERBORNE RURAL DISTRICT COUNCIL.

## SEWERAGE SCHEMES.

The Sherborne Rural District Council invites TENDERS from experienced civil engineering contractors for the CONSTRUCTION OF THE FOLLOWING THREE SEWERAGE SCHEMES:

- (i) Sewerage of Alwinton, comprising Laying 840 lin. yd. of 6in. dia. Concrete Pipe Sewers and Extension of the Sewage Disposal Works.
- (ii) Sewerage of Thornford, comprising Laying 1,200 lin. yd. of 6in. dia. Concrete Pipe Sewers and Construction of a Sewage Disposal Works.
- (iii) Sewerage of Bradford Abbas, comprising Laying 1,370 lin. yd. of 6in. dia. Concrete Pipe Sewers, Extension of Sewage Disposal Works, and Construction of a Sewage Pumping Station and Rising Main.

Specifications, Bills of Quantities and Forms of Tender may be obtained from the Council's Consulting Engineers, MESSRS. ALLEN AND WEBBER, Half Moon Street, Sherborne, Dorset, on payment of a deposit of Three Guineas in respect of each Contract, which sums will be refunded on receipt of the respective bona-fide Tenders and Tender documents.

Contractors may tender for any one or for all three Schemes and the Council may award the Contracts individually or collectively to suitable firms as they may decide. The lowest or any Tender will not necessarily be accepted, and acceptance will be subject to that part of the Council's Standing Orders relating to Contracts, and to the approval of the Ministry of Housing and Local Government.

Tender documents are to be enclosed in a plain sealed envelope endorsed "Sewerage Schemes," and must be received by the undersigned not later than TUESDAY, the 15th March, 1960.

IVOR SARTIN,

Clerk of the Council.

Council Offices,

Greenhill,

Sherborne, Dorset.

## STEVENAGE DEVELOPMENT CORPORATION.

## ROAD 3.

TENDERS are invited for a new DUAL CARRIAGEWAY ROAD LINK, some 2,000ft. long, between TERMINAL ROUNDABOUTS, together with Five Underpass Bridges and Prestressed Concrete Bridges over the main railway lines and the Great North Road (A.1).

The contract will involve the pretensioning on site of 70-ton beam units, 200ft. long.

Applications for tender documents, giving details of comparable work undertaken, and references, should be made to the Corporation's Consulting Engineers, MESSRS. RENDEL, PALMER AND TRITON, 125 Victoria Street, Westminster, London, S.W.1.

Tenders are returnable on the 28th MARCH, 1960.

## CONTRACTS

## BEDFORDSHIRE COUNTY COUNCIL.

## SUPPLIES TO RESIDENTIAL ESTABLISHMENTS.

TENDERS are invited for the SUPPLY of GROCERIES, PROVISIONS, TEA, BISCUITS, MILK, MEAT, BREAD AND FISH to the FOLLOWING:

- St. Margaret's Home, Streatley, near Luton.
- Caddington Hall, near Luton.
- The Mount, Luton.
- Rookwood, Luton.
- Pirton Hall, Shillington.
- The Cedars, Ampthill.
- The Limes, Biggleswade.
- Waverley House, Bedford.
- Russell House, Bedford.

Forms and details from the County Welfare Officer, 61 High Street, Bedford.

Tenders, in sealed endorsed envelopes, to be returned to the CLERK OF THE COUNTY COUNCIL, Shire Hall, Bedford, by 4th MARCH, 1960.

## COUNTY BOROUGH OF BURY.

## TENDERS invited for SUPPLY AND DELIVERY OF I.C.B. 303 LOADING SHOVEL.

Form of Tender from Borough Engineer, Town Hall, Bury.

Tenders, enclosed in plain sealed envelope endorsed "Loading Shovel," must reach me by 22nd FEBRUARY, 1960.

EDWARD S. SMITH,

Town Clerk.

Town Hall,

Bury.

4th February, 1960.

## CORPORATION OF BARKING.

## DEPARTMENT OF THE BOROUGH ARCHITECT.

## THAMES VIEW HALL.

TENDERS are invited for the ERECTION OF a PUBLIC HALL, size approx. 72ft. x 33ft., plus Foyer, Cloaks, Dressing, etc., in Single-storey Construction with a Light Concrete Frame with Brick Walls.

Firms desiring to TENDER should apply for an Application Form to be obtained from the Borough Architect, Town Hall, Barking, and be returned to the undersigned.

The closing date for applications is 10 a.m. FRIDAY, the 26th February, 1960.

E. R. FARR,

Town Clerk.

Town Hall,

Barking, Essex.

## CITY OF BIRMINGHAM.

## TO HEATING CONTRACTORS.

The WELFARE COMMITTEE invite TENDERS, on a Fixed-price Basis, for INSTALLATION OF PHASES 1 and 2A of the CENTRAL BOILERHOUSE SCHEME at the WORKSHOPS FOR THE BLIND, WOODVILLE ROAD, HARBORNE.

General Conditions (which include the Corporation's usual Fair Wages and Conditions of Labour Clause) may be inspected at the Mechanical and Public Lighting Department, 38 Cambridge Street, Birmingham, 1. Copies of Specification and Plans, etc., can be obtained on payment of £2 2s. at the Office of SIR HERBERT J. MANZONI, City Engineer and Surveyor, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. The deposit will be returned on receipt of a bona-fide Tender.

Tenders, enclosed in the envelope provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. 151), Council House, Birmingham, 1, not later than 12 Noon on TUESDAY, 8th March, 1960, when they will be opened. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

T. H. PARKINSON,

Acting Town Clerk.

Council House,

Birmingham, 1.

## THE URBAN DISTRICT COUNCIL OF ABERDARE.

## ACCOMMODATION WORKS AT LLWYDCOE.

TENDERS are invited for CARRYING OUT ALTERATIONS to OUTBUILDINGS and other Accommodation Works at NANTGOGH, Llwydcoed, Aberdare, necessary for Road Improvement.

Copies of Plans and Specifications may be obtained from the Office of the Engineer and Surveyor, Vestry Hall, Green Street, Aberdare, on the payment of a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes endorsed "Tenders—Nantgogh," but bearing no other mark indicating the sender, must be received by the undersigned not later than 19th MARCH, 1960.

The Council does not bind itself to accept the lowest or any Tender.

D. G. JAMES,

Clerk of the Council.

Town Hall,

Aberdare.

12th February, 1960.

## BASFORD RURAL DISTRICT COUNCIL.

## COSSALL DRAINAGE.

## TO CIVIL ENGINEERING CONTRACTORS.

TENDERS are invited for CARRYING OUT SEWERAGE WORK, including the FOLLOWING:

Erection of Automatic Electric Sewage Pumping Station with underground Sump and Pump Room.

Conversion of Existing Tanks into Storm Water Tanks.

Supplying and Laying of 4in. Spun-Iron Pumping Main, Involving River and Canal Crossings.

Supplying and Laying of 9in. and 6in. Iron and Concrete Pipe Sewers, with Manholes, etc., involving crossing under Main Railway tracks.

Plans can be seen, and copies of the General Conditions, Specification and Bill of Quantities may be obtained from MR. ERIC KIRK, A.I.A.S., A.R.S.H., M.Inst.R.A., Joint Engineer and Surveyor, Rock House, Stockhill Lane, Basford, Nottingham, on deposit of £5 5s. (by cheque), which will be returned on receipt of a bona-fide Tender (not afterwards withdrawn) and the return to the Engineer of all documents loaned to the contractor for the purpose of making up his Tender.

Sealed and endorsed Tenders to be delivered to the undersigned not later than Noon on TUESDAY, 8th March, 1960.

The lowest or any Tender not necessarily accepted.

By Order,

EDMUND ANDERTON,

Clerk to the Council.

Public Offices,

Rock House,

Stockhill Lane,

Basford,

Nottingham.

15th February, 1960.



CONTRACTS

DEVON COUNTY COUNCIL.

TENDERS are invited for PAINTING THREE BRIDGES.  
Particulars and Tender Forms, returnable by 14th MARCH, to TOWN CLERK, County Surveyor, Coover, Topham Road, Exeter.

EAST SUFFOLK COUNTY COUNCIL.

TENDERS are invited for the SUPPLY of FURNITURE for CAPEL ST. MARY NEW PRIMARY SCHOOL. EXTENSIONS to EYKE and STOKES ASH PRIMARY SCHOOLS, and new HOUSECRAFT ROOM at FRAMLINGHAM MILLS GRAMMAR SCHOOL.  
Schedules, Specifications and Tender Forms obtainable from the Chief Education Officer, Education Office, Rope Walk, Ipswich.  
Completed Tenders to be received by the CLERK of the COUNCIL, County Hall, Ipswich, not later than First Post on 7th MARCH, 1960.  
The Council do not bind themselves to accept the lowest or any Tender.

COUNTY BOROUGH OF BOLTON.

TENDERS invited for SUPPLY of UNIFORM CLOTHING to Children's, Welfare and Health Departments.  
Form of Tender, to be returned by Noon, 4th MARCH, obtainable from MEDICAL OFFICER OF HEALTH, Civic Centre, Bolton.

METROPOLITAN BOROUGH OF CAMBERWELL.

TENDERS are invited for SUPPLYING the FOLLOWING:

- (a) Six House Refuse Collection Vehicles (Seddon chassis with Eagle Compressmore body);
- (b) One 6-ton Long-wheelbase Dropside Truck;
- (c) One 2 1/3-ton Low-load Tipping Truck;
- (d) One 800-gallon Combined Gully Emptying and Street Washing Machine;
- (e) One Ferguson 35 Tractor and 30cwt. Tipping Trailer 704;
- (f) One Road-burning Machine, 4ft. x 2ft. hood;
- (g) One Vibrating Trench Compactor;
- (h) One Peason 3in. Diaphragm Pump;
- (i) Four Rapier Rotary Mowers;
- (j) Three Sexton Rotary Mowers;
- (k) Two 30in. Ransomes Cutting Units for Triple Gang Mower, complete with Drawbar Attachment.

Tender Forms on application to the BOROUGH ENGINEER AND SURVEYOR, Town Hall, S.E.5. Closing date: WEDNESDAY, 2nd March, 1960.

BOROUGH OF HESTON AND ISLEWORTH.

STREET LIGHTING IMPROVEMENT.

WELLINGTON ROAD NORTH AND WELLINGTON ROAD SOUTH, HOUNSLOW (B.358).

TENDERS are invited for the INSTALLATION of STREET LIGHTING to Group "A", Standard in Wellington Road North and Wellington Road South, Hounslow (B.358), from BATH ROAD, Hounslow, to HANWORTH ROAD, Hounslow.

The work includes the Removal of 35 Existing Columns and the Supply and Erection of 44 Steel Columns with Mercury Fluorescent (colour corrected) Lamps, Lanterns, and Control Gear.  
On deposit of £2 2s. (returnable if a bona-fide Tender is received and not withdrawn), the Bill of Quantities, Specification and Form of Tender may be obtained from the Conditions of Contract and Drawings seen at the Borough Engineer's Department, 88 Lampton Road, Hounslow.

Tenders, in endorsed envelopes supplied by the Corporation, but indicating the tenderer, must be delivered to me by 10 a.m. on FRIDAY, 11th March, 1960.

The Corporation are not bound to accept any Tender.

D. MATHIESON, Town Clerk.

Town Hall, Hounslow, Middx.

BOROUGH OF KING'S LYNN.

HARDWICK ROAD TRADING ESTATE—FIRST SECTION.

TENDERS on a Fixed-price Basis, are invited for the CONSTRUCTION of approx. 4,615 sq. yd. of CARRIAGEWAYS, LAYING 1,140 lin. yd. of SEWERS and 719 lin. yd. of WATER MAINS, together with ancillary works, at Hardwick Road Trading Estate, King's Lynn.

Copies of the Specification, Bills of Quantities and Form of Tender may be obtained from the General Conditions of Contract and Drawings inspected at the Office of the Borough Engineer, Clifton House, 17 Queen Street, King's Lynn, upon payment of a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender.

Tenders, in the envelope provided, must be returned to the undersigned not later than Noon on TUESDAY, 8th March, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

E. W. GOCHER, Town Clerk.

Town Hall, King's Lynn.

BOROUGH OF CHATHAM.

RECONSTRUCTION OF NEW ROAD AVENUE (A.2)—STAGE 1.

TENDERS are invited for the FIRST STAGE of RECONSTRUCTION WORKS at New Road Avenue, Chatham, comprising approx. 300 lin. yd. of Kerbing together with the Repair and Reconstruction of approx. 1,500 super. yd. of Carriageway Foundation and Concrete.

Tender documents may be obtained on payment of a deposit of Two Guineas from MR. J. A. T. RICHARDS, F.I.A.S., M.Inst.H.E., Borough Engineer and Surveyor, Town Hall, Chatham.

Tenders should be returned in a plain sealed envelope, endorsed "Tender for Reconstruction of New Road Avenue," to reach the Town Clerk, Town Hall, Chatham, not later than Noon, MONDAY, 29th February, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

ROWLAND NEWNES, Town Clerk.

Town Hall, Chatham, 12th February, 1960.

BEDFORDSHIRE EDUCATION COMMITTEE.

TENDERS are invited for the SUPPLY and DELIVERY of GARDEN TOOLS and SUNDRIES to EDUCATIONAL ESTABLISHMENTS in the County of Bedford (excluding the Boroughs of Bedford and Luton).  
Forms of Tender from the DIRECTOR OF EDUCATION Shire Hall, Bedford, by 27th FEBRUARY, 1960.

CONTRACTS

WILTSHIRE COUNTY COUNCIL.

TENDERS are invited for the FOLLOWING:—  
(a) Installation of Heating and Cold Water Systems.  
(b) Installation of Electrical System.

At Devises Southbrook Controlled New Primary School floor area approx. 15,550 sq. ft.).  
Applications to tender, with details of available labour force, organisation and particulars of any similar work carried out, to be made by MARCH 4th, 1960, to the County Architect.

The Council reserves to itself the right to select the firms who will be invited to tender.  
Plans and Specifications will be sent to selected contractors.

P. A. SELBORNE STRINGER, Clerk of the County Council.

County Hall, Trowbridge.

DERBYSHIRE COUNTY COUNCIL

BRIDGES AND HIGHWAYS DEPARTMENT.

TENDERS are invited for one 8/10-TON DIESEL ROAD ROLLER, preferably with Ruston air-cooled engine, complete with Scarifier, Water Sprinklers and Enclosed Cab. Delivery to Ambergate, near Derby.  
Tenders, with full Specification and approx. delivery period, in plain sealed envelope endorsed "Tender for Roller, B. and H.," to the Clerk of the County Council, County Offices, Matlock, Derbyshire, not later than WEDNESDAY, 24th February, 1960. Tender Forms will not be issued.

S. MEHEW, County Surveyor.

County Offices, Matlock.

COUNTY BOROUGH OF BARNSLEY.

LUNDWOOD SEWAGE DISPOSAL WORKS RECONSTRUCTION.

CONTRACT Q.

TENDERS are invited from experienced civil engineering contractors for the CONSTRUCTION of a 65ft. dia. REINFORCED CONCRETE HUMUS TANK and a 30ft. dia. PUMPING STATION, together with ancillary works.

Documents may be obtained from the Borough Engineer, Town Hall, Barnsley.  
Tenders, in the envelopes provided, should reach the undersigned not later than 12 o'clock Noon, FRIDAY, 18th March, 1960.  
The Corporation do not bind themselves to accept the lowest or any Tender.

A. E. GILFILLAN, Town Clerk.

Town Hall, Barnsley.

February, 1960.

BOROUGH OF NEWBURY.

TURNPIKE ROAD HOUSING SITE—PART 1—ROADS AND SEWERS.

TENDERS are invited for the CONSTRUCTION of approx. 6,250 super yd. of 6in. REINFORCED CONCRETE CARRIAGEWAY, together with Foul and Surface Water Sewers.

Specification, Bill of Quantities and Form of Tender may be obtained from the Borough Surveyor, Municipal Buildings, Newbury, at whose Office Plans and General Conditions may be inspected.

Sealed Tenders, endorsed "Turnpike Road Housing Site—Part 1," should be delivered to the undersigned not later than THURSDAY, 31st March, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

LESLIE SOUTHERN, Town Clerk.

BOROUGH OF ELLESMERE PORT.

CONTRACT NO. 292.

80 GROUP "B" ELECTRIC STREET LAMPS IN VARIOUS PARTS OF THE BOROUGH AS IN-FILLING BETWEEN EXISTING LAMPS.

TENDERS are invited for the PROVISION and ERECTION of 80 CONCRETE GROUP "B" ELECTRIC STREET LAMPS, complete, in various parts of the Borough, as in-filling between existing lamps.

Contract documents obtainable from the Borough Engineer and Surveyor, Queen Street, Ellesmere Port, on the 20th FEBRUARY, 1960.

Sealed Tenders, in the plain official envelope provided, must reach the undersigned by Post by not later than 5 p.m. on MONDAY, the 14th March, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

R. J. BERNIE, Town Clerk.

Municipal Offices, Ellesmere Port, Ches.

10th February, 1960.

URBAN DISTRICT COUNCIL OF COSELEY.

TENDERS.

TENDERS are invited for the SUPPLY of the UNDERMENTIONED MATERIALS during the year ending 31st March, 1961, viz.:

- (a) Road Materials and Road Signs.
- (b) Tools, Plant and Protective Clothing.
- (c) Building Materials.
- (d) Cast-iron and Rainwater Goods, Dustbins and Tubular Lineposts.
- (e) Paint and Decolouring Materials.
- (f) Plumbing Materials.
- (g) Ironmongery and Hardware.
- (h) Disinfectants and Soaps.
- (i) Motor Oils and Tyres.
- (j) Printing and Stationery.

Tender Forms forwarded on receipt of a stamped addressed envelope, stating items required.

Closing date for Tenders, First Post on FRIDAY, 4th March, 1960. Tenders should be sent in plain sealed envelopes, marked "Tender" (state item).

The Council do not bind themselves to accept the lowest or any Tender.

JOSEPH C. ROPER, Clerk of the Council.

Council House, Coseley.

19th February, 1960.

CHESHIRE EDUCATION COMMITTEE.

CHESHIRE COUNTY TRAINING COLLEGE, CREWE.

TENDERS are invited for the SUPPLY of HOSTEL FURNITURE to the above Training College.

Forms of Tender, returnable by 11th March, 1960, obtainable by sending stamped addressed envelope to JOHN G. KELLET, Director of Education, Education Department, County Hall, Chester.

CONTRACTS

COUNTY BOROUGH OF SOUTHAMPTON.

TENDERS invited for ERECTION of KITCHEN/DINING ROOM at WOOLSTON SECONDARY SCHOOL, Southampton.

Forms and Particulars, including Bill of Quantities, from Borough Architect, on written application by 27th FEBRUARY, 1960, 1.10 p.m. Contract plus Supplementary Conditions available for inspection.

Tender to TOWN CLERK, Civic Centre, Southampton, by 10 a.m., 21st MARCH, 1960.

METROPOLITAN BOROUGH OF LEWISHAM.

TENDERS are invited for the SUPPLY of the FOLLOWING:—

- (a) Two Seddon/Eagle Compressmore Refuse Vehicles.
- (b) One 7-ton Refuse Vehicle (fore and aft tipping), equipped for emptying 1 1/4 cu. yd. containers.

In each case, offers are invited for taking used vehicles in part exchange.

Particulars and Form of Tender from the BOROUGH ENGINEER, Lewisham Town Hall, Catford, S.E.6. Closing date: 12 Noon, 27th FEBRUARY, 1960.

BOROUGH OF HORNSEY.

REDSTON ROAD PLAYING FIELD CHANGING PAVILION.

TENDERS are invited for the ERECTION of a CHANGING PAVILION at the Redston Road Playing Field, N.8.

Tenders to be submitted by Noon on MONDAY, the 21st March, 1960.

Applications to tender to the Borough Engineer and Surveyor, Town Hall, Hornsey, N.8, not later than 1st MARCH, 1960.

W. B. MURGATROYD, Town Clerk.

CITY OF BATH.

LANSDOWN LANE IMPROVEMENT.

TENDERS are invited for the RECONSTRUCTION and WIDENING of approx. 170 lin. yd. of LANSDOWN LANE, Bath. The following works are included: Laying of 180 lin. yd. 27in. and 24in. Precast Concrete Pipe.

Erection of Concrete Retaining Wall 8ft. high, approx. 180ft. in length.

Construction of 1,265 sq. yd. of Carriageway.

Construction of One High-level and One Low-level Footpath, combined area 770 sq. yd.

Plans may be inspected at, and copies of the General Conditions of Contract, Specification, Bill of Quantities and Form of Tender may be obtained from the Office of the City and Waterworks Engineer, Guildhall, Bath, on payment of a deposit of Two Guineas, which will be returned on receipt of a bona-fide Tender, not subsequently withdrawn.

Tenders must be delivered, in the envelope provided, not later than 10 a.m. on THURSDAY, 10th March, 1960, to the Town Clerk, Guildhall, Bath.

The Corporation do not bind themselves to accept the lowest or any Tender.

JARED E. DIXON, Town Clerk.

Guildhall, Bath.

5th February, 1960.

BRAINTREE RURAL DISTRICT COUNCIL.

Applications are invited from persons, firms and companies who wish to be included on the Council's list of SELECTED TENDERERS for the SUPPLY of ALL or ANY of the SERVICES, GOODS or ARTICLES required by contract within the following trade categories:—

- (1) Building Contractors.
- (2) Public Works Contractors.
- (3) Electrical Contractors.
- (4) Building Materials (excluding those in List 5), Paint, etc.
- (5) Stoves, Baths and Sanitary Ware.
- (6) Electrical Fittings (including Cookers, Conpers, etc.).
- (7) Motor Vehicles.
- (8) Motor Vehicles Fittings and Components.
- (9) Water Mainline Fittings.
- (10) Protective Clothing.

Forms of application (returnable by 2nd MARCH, 1960) can be obtained from the CLERK of THE BRAINTREE RURAL DISTRICT COUNCIL, St. Peter's Close, Bocking, Braintree, Essex.

Firms already on the Council's lists need not apply, as they will be supplied with application forms automatically.

GREAT OUSE RIVER BOARD.

TENDERS FOR IMPROVEMENT WORKS, 1960-61.

TENDERS are invited for the FOLLOWING IMPROVEMENT WORKS to be carried out during the financial year 1960-61:

- (1) Gauging Weir and Bridges, Willen, near Newport Pagnell, Buckinghamshire.—Works include 2,160 cu. yd. Excavation, 4,000 cu. yd. Fill, 6,250 cu. ft. Reinforced Concrete and 980 sq. yd. Roadworks.
- (2) Dredging of River Ouzel, near Newport Pagnell, Buckinghamshire.—Works include 11,260 cu. yd. Excavation, 8,900 cu. yd. Fill, and 17,800 sq. yd. Spoil Treatment.

Copies of the contract documents and Drawings for one or both of these works may be obtained from the Engineer of the Board, at the address given below, on payment of a deposit of £5 5s. per set (cheque to be made payable to the Great Ouse River Board), which will be refunded on the receipt of a bona-fide Tender, not subsequently withdrawn, and on the return of all documents and Drawings.

Separate Tenders, enclosed in the endorsed addressed envelopes provided, must be received by me not later than 9 a.m. on MONDAY, 7th March, 1960.

K. M. RODDIS, Clerk of the Board.

"Elmhurst," Brooklands Avenue, Cambridge.

11th February, 1960.

MERIONETH EDUCATION COMMITTEE.

TO CONTRACTORS.

TENDERS are invited for FORMING a PLAYING FIELD and ASPHALT SURFACING at the PRIMARY SCHOOL, Barmouth.

Bills of Quantities may be obtained on application to the County Architect, County Offices, Lombard Street, Dolgeau, on payment of £2 2s., returnable on receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes endorsed "Barmouth Primary School—Playing Field," must reach the DIRECTOR OF EDUCATION not later than MONDAY, 7th March, 1960.



## CONTRACTS

## METROPOLITAN BOROUGH OF LAMBETH.

## WINDSOR GROVE SITE—NORWOOD HIGH STREET, S.E.27.

Contractors desirous of being invited to submit TENDERS for the ERECTION of 46 FLATS in TWO- and THREE-STORY BLOCKS, and 12 HOUSES, together with Roads, etc., at the ABOVE SITE, should submit their names to the Architect, HARRY MONCRIEFF, F.R.I.B.A., A.M.T.P.I., Co-operative Planning, Ltd., 73b South Side, Clapham Common, London, S.W.4, together with particulars of recent contracts, by Noon on the 1st MARCH, 1960.

Bills of Quantities will be issued on or about the 16th March, 1960, to those firms selected by the Council.

## BOROUGH OF TAUNTON.

## TENDER FOR HYDRAULIC DINKUM DIGGER.

TENDERS are invited for one new DINKUM DIGGER MAJOR on Fordson Chassis, with Front Loader.

Specification and details obtainable from W. J. WONNACOTT, Waterworks Engineer and Manager, Flook House, Station Road, Taunton.

Tender to be sent to the undersigned, in envelope provided, not later than TUESDAY, 23rd February, 1960.

K. A. HORNE,  
Town Clerk.

## BOROUGH OF ILFORD.

## 82 HOUSES—DEVELOPMENT BETWEEN THE GLADE AND FULLWELL AVENUE, ILFORD.

The CORPORATION invite FIRM-PRICE TENDERS for the ERECTION of 82 THREE-BEDROOM HOUSES. Drawings and Conditions of Contract may be inspected, and Bills of Quantities and Form of Tender obtained, on or about the 1st MARCH, from the Borough Engineer, Town Hall, Ilford, upon written application and payment of a deposit of £3 3s., which will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "Tender—82 Houses—Development between The Glade and Fullwell Avenue, Ilford," but not bearing any name or mark indicating the sender, must be delivered to the TOWN CLERK, Town Hall, Ilford, not later than 4 p.m. on TUESDAY, 22nd March, 1960.

## BOROUGH OF ILFORD.

## 12 FLATS—ATHERTON ROAD, ILFORD.

The CORPORATION invite FIRM-PRICE TENDERS for the ERECTION of Two Adjoining THREE-STORY BLOCKS OF FLATS, comprising Six Bed-sitting-room and Six One-bedroom Flats, respectively.

Drawings and Conditions of Contract may be inspected, and Bills of Quantities and Form of Tender obtained, on or about the 1st MARCH, from the Borough Engineer, Town Hall, Ilford, upon written application and payment of a deposit of £3 3s., which will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "Tender—12 Flats—Atherton Road, Ilford," but not bearing any name or mark indicating the sender, must be delivered to the TOWN CLERK, Town Hall, Ilford, not later than 4 p.m. on TUESDAY, 22nd March, 1960.

## CITY OF LEEDS.

## THE TRANSPORT COMMITTEE OF THE LEEDS CITY COUNCIL INVITES TENDERS FOR THE FOLLOWING:—

- (a) Uniform Serge.
- (b) Making-up (i.e. C.M.T.) Uniform Clothing.
- (c) Uniform Caps.
- (d) Electric Lamps.

Specification, Form of Tender and Conditions of Contract may be had upon application to the undersigned.

Tenders, in plain envelopes, sealed and endorsed "Transport—Tenders for Uniform Serge," or as the case may be, to be delivered to the Town Clerk, Room 57, Civic Hall, Leeds, 1, not later than 10 a.m. on MONDAY, March 14th, 1960.

A. B. FINDLAY,  
General Manager.

1 Swinegate,  
Leeds, 1.  
February, 1960.

## HAVANT AND WATERLOO URBAN DISTRICT COUNCIL.

## COWPLAIN SURFACE WATER DRAINAGE SCHEME.

The Urban District Council of Havant and Waterloo invite FIXED-PRICE TENDERS for the CONSTRUCTION of approx. 92 lin. yd. of 9 in. dia.; 30 lin. yd. of 12 in. dia.; 217 lin. yd. of 27 in. dia.; and 71 lin. yd. of 30 in. dia. SURFACE WATER SEWERS, and ancillary works connected therewith.

Conditions of Contract and Drawings may be inspected at the Office of the Engineer and Surveyor, 1 Park Road North, Havant, from whom Specifications, Bills of Quantity and Form of Tender may be obtained.

No Tender will be received except in a plain sealed envelope which must bear the word "Tender," followed by the subject to which it relates, but shall not bear any name or mark indicating the sender. Tenders must be delivered to the CLERK OF THE COUNCIL, Town Hall, Havant, not later than 12 Noon on THURSDAY, the 17th March, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

## URBAN DISTRICT OF BROWNHILLS.

## ENGINEER AND SURVEYOR'S DEPARTMENT.

## ANNUAL SUPPLIES (HOUSING CAPITAL).

TENDERS are invited for the SUPPLY and DELIVERY of the FOLLOWING ITEMS for the year ending 31st March, 1961:—

- (1) Fireplaces and Ranges.
- (2) Sanitary Goods, including Baths, Lavatory Basins, W.C.s (complete) and Sinks, for Ironmongery.
- (3) Cupboards and Dressers (to B.S.S.).
- (4) Thermoplastic Floor Tiling (Supply and Fix).
- (5) Sundry Items, including Rails, Rainwater Goods, Plasterboard, etc.

Schedules may be obtained from Mr. CHARLES H. HUNT, Engineer and Surveyor, Coombe House, Brownhills, Staffs., and Tenders must be returned to him, in a plain sealed envelope, endorsed "Tender for Supplies (Housing Capital)," not later than FRIDAY, 18th March, 1960.

NORMAN WAINE,  
Clerk of the Council.

Council Offices,  
Brownhills, Staffs.,  
10th February, 1960.

## CONTRACTS

## THE COUNTY COUNCIL OF THE COUNTY OF SUTHERLAND.

## CROFTER COUNTIES SCHEME.

## ULLAPOL-LEDMORE-LOCHINVER ROAD.

## ROAD AND BRIDGE WORKS CONSTRUCTION, RECONSTRUCTION AND SURFACING.

## ROUTES A.835/A.837.

## SECTION: KNOCKAN-LEDMORE-LYNE (approx. 5 Miles).

## CONTRACT NO. 18.

The Council are prepared to receive TENDERS for the ABOVE WORKS.

Drawings and Specifications, etc., may be seen on and after TUESDAY, 16th February, 1960, at the Offices of: The Scottish Home Department (Roads Division), Bankhead Avenue, Sighthill, Edinburgh, 11; The Scottish Home Department (Roads Division), 33 Academy Street, Inverness; W. SUTHERLAND, County Road Surveyor, Brora.

Specification, Bill of Quantities, Form of Tender, and all information required may be obtained on or after the same date at the Office of the County Road Surveyor, Brora, on depositing £3 3s., which deposit will only be returned on the receipt of a bona-fide Tender and the return of all documents. Cheques should be made payable to the County Council of the County of Sutherland.

An engineer will meet contractors at 11 a.m. on 23rd February, 1960, at Ledmore Junction to show them over the route.

Sealed Tenders, endorsed "Contract No. 18—Knockan-Ledmore-Elphin Road," must be lodged with the undersigned, not later than Noon on TUESDAY, 15th March, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

(Signed) A. J. MACRAE,  
County Clerk.

County Clerk's Office,  
Golspie, Sutherland,  
9th February, 1960.

## COUNTY BOROUGH OF SOUTHAMPTON.

## ELIMINATION OF CESSPITS, STAGE 3—GLEN EYRE ROAD, BASSETT.

The Council are prepared to receive TENDERS for the CONSTRUCTION of approx. 860 lin. yd. of 6 in. dia. STONEWARE SEWER, together with MANHOLES and other appurtenant works.

Interested contractors are invited to submit their names to the BOROUGH ENGINEER AND SURVEYOR, Civic Centre, Southampton, by 27th FEBRUARY, 1960. Tendering documents and instructions will be sent out as soon as possible.

## METROPOLITAN BOROUGH OF CAMBERWELL.

## CONCRETE MANHOLE SECTIONS.

TENDERS invited for SUPPLY of CONCRETE MANHOLE SECTIONS, and details from BOROUGH ENGINEER AND SURVEYOR, Town Hall, Camberwell, S.E.5. Closing date, 5th MARCH, 1960.

## CITY OF EXETER.

## MAIN DRAINAGE.

## CONSTRUCTION OF SURFACE WATER SEWERS WITHIN THE LONGBROOK DRAINAGE AREA.

The CITY COUNCIL invite TENDERS for the ABOVE WORK, which comprises the Supply, Laying and Jointing of approx. 3,000 yd. of Concrete Ogee Tubes varying from 18 in. to 36 in. in dia.; approx. 6,700 yd. of Soliot and Socket Concrete Pipes varying from 9 in. to 15 in. in dia. and approx. 3,600 yd. of 6 in. and 7 in. dia. Salt Glazed Stoneware Pipes. The Contract includes the Construction of Manholes, Special Manholes, and other ancillary work. Approx. 34 yd. of the 36 in. dia. Tubes will be constructed in tunnel.

The Plans and General Conditions of Contract may be seen, and the Specification, Form of Tender, Schedule of Prices and Bills of Quantities obtained, at the Office of the undersigned on payment of Five Guineas, which will be refunded on receipt of a bona-fide Tender.

Tenders may obtain relative copies of the Plans upon receipt of Three Guineas, which is non-refundable.

Tenders, endorsed "Longbrook Surface Water Sewerage," must be deposited with the undersigned not later than 10 a.m. on WEDNESDAY, 16th March, 1960, in a sealed envelope which shall not bear any name or mark indicating the sender.

Members of the Council are not to be personally canvassed by or on behalf of persons tendering. The Council do not bind themselves to accept the lowest or any Tender.

JOHN BRIERLEY,  
City Engineer and Surveyor.

Municipal Offices,  
7 Southernhay West,  
Exeter.

9th February, 1960.

## URBAN DISTRICT OF BROWNHILLS.

## ENGINEER AND SURVEYOR'S DEPARTMENT.

## ANNUAL SUPPLIES.

TENDERS are invited by the Urban District for the SUPPLY of the FOLLOWING MATERIALS and WORK for the year ending 31st March, 1961:—

- (1) Granite Chippings.
- (2) Tarrad and Bituminous Granite.
- (3) Tarrad and Bituminous Limestone.
- (4) Barred Hardcore.
- (5) Fine Cold Bit. Asphalt.
- (6) Tar Compound.
- (7) Portland Cement.
- (8) Sand and Washed Gravel.
- (9) Ashes and Red Shale.
- (10) Granite Concrete Kerbs, Flags and Back Edging.
- (11) Concrete Pipes, Gullies and Manholes.
- (12) Stoneware Pipes and Gullies.
- (13) Supplying and Laying Macadam by Machine.
- (14) C.I. Manhole Covers and Frames.
- (15) C.I. 6" x 6" Gullies and Frames.
- (16) Kerbing, Paving and incidental works (Labour only).

Tender Forms may be obtained from Mr. CHARLES H. HUNT, A.M.I.Mun.E., Engineer and Surveyor, Coombe House, Brownhills, near Walsall, Staffs., and should be returned to him in a plain sealed envelope, endorsed "Tender for Annual Supplies," to reach him not later than FRIDAY, 18th March, 1960.

NORMAN WAINE,  
Clerk of the Council.

Council Offices,  
Brownhills, Staffs.,  
10th February, 1960.

## CONTRACTS

## BOROUGH OF SOUTHGATE.

## IMPROVED STREET LIGHTING, 1960-61.

TENDERS are invited for the FOLLOWING CONTRACTS in connection with the Improvement of Street Lighting to Group "A" Standards in certain District Roads within the Borough:

CONTRACT "A": Supply only of Lanterns and Control Gear for 630 60-W Sodium Vapour Discharge Lamps.

CONTRACT "B": Supply and Erection of Concrete Lamp Standards and Fixing Lanterns, Control Gear, Wiring, etc., for 630 Units 15ft. Mounting Height.

Separate Contract documents will be issued and contractors may tender for one or both Contracts. Contractors wishing to tender should apply to the Borough Engineer and Surveyor for a copy of the relevant documents.

Sealed Tenders, in the envelope provided, must be received by the undersigned not later than 9 a.m. on MONDAY, 7th March, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

GORDON H. TAYLOR,  
Town Clerk.

Town Hall,  
Palmer's Green,  
London, N.13.  
February, 1960.

## CITY AND COUNTY OF BRISTOL.

## MAIN FOUL WATER DRAINAGE SCHEME.

## MAIN PUMPING STATION.

## ANCILLARY EQUIPMENT.

Manufacturers suitably experienced for the SUPPLY of:—

- (a) Curved Bar SEWAGE SCREENS, approx. 9ft. x 11ft., together with Automatic Raking Gear and Pumps for Flushing Water.
- (b) Hand and automatically operated PENSTOCKS of 60 in., 42 in. and 36 in. square opening and 12 in. and 9 in. diameters.
- (c) COMMINUTORS to deal with a sewage flow of 20,000,000 gallons day for each unit.
- (d) Electrically operated 10-ton OVERHEAD CRANE and Hand operated 5-ton OVERHEAD CRANE.
- (e) METERING EQUIPMENT for incoming and outgoing sewage flows, sewer and sump level indicators, transmission and recording equipment.

Are invited to apply for inclusion in a selected list of firms who will be invited to TENDER for the SUPPLY and ERECTION of the ABOVE EQUIPMENT.

Applications, together with supporting evidence of similar experience, to be sent to the CITY ENGINEER AND PLANNING OFFICER, Cabot House, Deanery Road, Bristol, 1, by 7th MARCH.

## CITY OF MANCHESTER.

TENDERS invited for the SUPPLY and DELIVERY of STAINLESS STEEL TOPPED TILES to the DOMESTIC AND TRADES COLLEGE, FALLOWFIELD. Specification from CITY ARCHITECT, P.O. Box 488, Town Hall. Tenders returnable by MARCH 9th.

## CITY OF MANCHESTER.

## PRIVATE STREET WORKS.

TENDERS are invited for the PAVING and COMPLETING of LAINDON ROAD, VICTORIA PARK, approx. 2,300 sq. yd. of Bitumen Macadam Carriageway, 1,800 sq. yd. of Asphalt Sand Carpet, and all ancillary works.

Tender documents, returnable by the 1st MARCH, 1960, are obtainable from the CITY SURVEYOR, Town Hall, Manchester, 2.

## URBAN DISTRICT COUNCIL OF MINEHEAD.

## IMPROVEMENTS TO PRE-WAR COUNCIL HOUSES.

TENDERS are invited for the CONSTRUCTION of BATHROOMS as additions to 40 Houses at LOWER MEADOW ROAD, ALCOMBE, Minehead, Somerset.

Tender documents may be obtained from the Engineer and Surveyor, Council Offices, 37 Blenheim Road, Minehead, Somerset, on payment of a £2 2s. deposit, which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes, endorsed as instructed, must be received by the undersigned not later than Noon on the 18th MARCH, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

F. J. G. SANDERS,  
Clerk of the Council.

Council Offices,  
37 Blenheim Road,  
Minehead, Som.,  
12th February, 1960.

## ROTHWELL (YORKS.) URBAN DISTRICT COUNCIL.

## ANNUAL TENDERS, 1960-61.

TENDERS are invited for the EXECUTION of certain HIGHWAY WORKS or the SUPPLY and DELIVERY of MATERIALS listed below for the financial year ending 31st March, 1961:—

- (1) Heating and Planing, Tarrad Slag and Dense Tar (including Laying by Machine).
- (2) Refined Tar and Bituminous Preparations for Surface Dressing.
- (3) Granite Chippings, Sand, Gravel, Building Sand, Slag/Gravel/Salt for Winter Gritting, Pitching Stone, Crusher Run Steel Slag and Limestone.
- (4) Cold Asphalt for Carriageways and Footpath Surfaces, including Laying by Machine on Carriageways.
- (5) Concrete Kerbs, Channel Blocks and Edging.
- (6) Highway Tools and Portland Cement.
- (7) Manhole Covers and Frames, Gully Grates and Frames.
- (8) Coke.
- (9) E.W. Pipes.
- (10) Gas Lighting Fittings and Mantles.
- (11) Electric Lighting Lamps, Sodium and Tungsten, Leak Transformers, Capacitors and T.R.S. Cable.

Specification and Form of Tender may be obtained from the Engineer and Surveyor, Civic Buildings, Rothwell, near Leeds, and sealed Tenders, endorsed "Annual Tenders, 1960-61—Schedule No. —," must not bear any name or mark indicating the sender, are to be delivered to the undersigned not later than 4 p.m. on TUESDAY, the 1st of March, 1960.

\*Schedule Numbers to be inserted.  
ALLEN T. S. ROBERTSON,  
Clerk of the Council.

Civic Buildings,  
Rothwell,  
Near Leeds,  
12th February, 1960.

## CONTRACTS

COUNTY BOROUGH OF HALIFAX.  
PLANT.

TENDERS are invited for the SUPPLY and DELIVERY of the FOLLOWING:—  
One 15cwt. capacity 4-wheel Diesel Dumper.  
One 4-wheel Hand-operated Cold Emulsion Sprayer.  
One 3cwt. Hand Roller.  
One 5cwt. Hand Roller.  
Suppliers are asked to note that Forms of Tender and Specifications are not issued. Tenders, accompanied by detailed Specifications of the plant offered, to the TOWN CLERK, Town Hall, Halifax, not later than 1st MARCH, 1960. Envelopes to be endorsed "Plant".

## ISLINGTON BOROUGH COUNCIL.

TENDERS are invited for the SUPPLY and DELIVERY of approx. 376 lin. yd. of 4ft. 6in. high IRON RAILING FENCING with Four SINGLE and Two DOUBLE GATES, and Two ORNAMENTAL IRON GATES. Forms of Tender, available from the BOROUGH ENGINEER AND SURVEYOR, Town Hall, Upper Street, N.1., are returnable not later than Noon on TUESDAY, 1st March, 1960.

BOROUGH OF SLOUGH.  
MUNICIPAL DUSTBIN SCHEME.

The COUNCIL proposes to inaugurate a scheme for supply of replacement dustbins to householders in the Borough.  
TENDERS are, therefore, invited for the SUPPLY and DELIVERY of supplies of 2½ and 3¼ cu. ft. B.S.5. Taper Type DUSTBINS. Further particulars and Form of Tender obtainable from Borough Engineer, Town Hall, Slough, Bucks.  
Tenders should be returned, in envelope provided, to TOWN CLERK, Town Hall, Slough, Bucks., by Noon, 7th MARCH, 1960. The Council does not bind itself to accept the lowest or any Tender.

CITY OF COVENTRY.  
SUPPLY AND APPLICATION OF TAR.

TENDERS invited for SUPPLY and MECHANICAL APPLICATION OF TAR to ROAD SURFACES during the year ending 31st March, 1961. Tender Forms and Specification from the CITY ENGINEER, Council House, Coventry. Completed Tender returnable by 29th FEBRUARY.

CITY OF COVENTRY.  
CAPITAL ROAD RESURFACING PROGRAMME, 1960

TENDERS invited for RESURFACING ROADS with total area approx. 12,500 sq. yd., and incidental works. Documents from CITY ENGINEER, Council House, Coventry, on payment of £5 deposit, returnable on receipt of bona-fide Tender by 4th MARCH.

**WOODLANDS (WORCESTERSHIRE), LTD.** invite TENDERS for the FOLLOWING GOODS:—  
Compressor Hose, Water Hose, Water Filters, Compressors, Harland Pumps, Collis Stacker, Boot Finishing Machine, Pinch Bars, Marine Gearboxes, Pine Threading Tools, Underwater Cutting Plant, Interference Suppressors, Electric Motors, Generating Plant, Onan Engines, Sheaf Blocks, Rope Clamps, Grinding Wheels, Wire Following, Bore Drills, Tapping Drills, Blankets, Radio Test Sets, Plastic Coating, Paint, Cable, Scales, Diving Suits, Breathing Apparatus, Metal Work Benches, Spare Parts for Earthmoving Equipment, Chain Blocks and Travellers, Photographic Equipment.

Tender Forms available on application.  
Inspection of goods from 7th-18th March, 1960.  
Tenders opened 26th MARCH, 1960.  
**WOODLANDS (WORCESTERSHIRE), LTD.**,  
Four Pools Farm, Evesham, Worcestershire.

**CARR'S QUIPS—ESTIMATES.** Even a strong man needs a stick sometimes. The most reliable crutch in the business—R. J. CARR, Britain's Top Free-lance Estimator, 42 Coombe Road, New Malden, Surrey. Tel.: Malden 8640.

TENDERS invited from suitable builders for extensive private HOUSING SCHEME, Bolton area.—For details, write Box X.1267, "The Contract Journal".

**BRICKLAYER SUB-CONTRACTORS REQUIRED** for new SINGLE-STOREY FACTORY to be built in HUDDERSFIELD. Commence mid-March. Letters stating experience and indication of prices required, to Box X.1265, "The Contract Journal".

**KEEPING SUB-CONTRACTORS (Labour only) REQUIRED** for small road contracts—London and Home Counties.  
Reply Box X.1266, "The Contract Journal".

For Contracts received too late for classification see page 845

## APPOINTMENTS VACANT

FEDERAL GOVERNMENT OF NIGERIA.  
EXECUTIVE ENGINEERS.

EXECUTIVE ENGINEERS REQUIRED by the Federal Government of Nigeria to carry out preliminary surveys and investigations for all types of civil engineering undertakings, to prepare engineering designs in steel and reinforced concrete and other materials, and to carry out tests of soils and foundations.

Candidates must have either: (a) A university degree in civil engineering recognised by the Institution of Civil Engineers and two years' subsequent experience; or (b) passed parts one and two of the examinations of the Institution of Civil Engineers or obtained a recognised diploma and had not less than five years' general experience in civil engineering work. Applications will also be considered from Corporate Members of the Institutions of Structural or Municipal Engineers or of the Royal Institution of Chartered Surveyors, who have had considerable executive experience in civil engineering construction in the field.

Contract appointment for one tour of 15-18 months in the first instance. Salary £1,416-2-10 (including inducement addition), plus gratuity of £150 per annum for satisfactory service. An out-of-pocket allowance of £60 is paid on salaries not exceeding £1,524 per annum. Liberal leave on full pay. Free passages for officers and wives. Quarters at low rent. Income tax at low local rate. Children's allowances while separated.

Candidates should submit Free particulars, forms and further particulars, stating age, qualifications and experience, to the Appointments Secretary, Federal Public Service Commission, Nigeria House, 9 Northumberland Avenue, London, W.C.2., quoting V.5.10.

## APPOINTMENTS VACANT

## ROYAL COUNTY OF BERKSHIRE.

- APPOINTMENT OF:  
(1) SENIOR ASSISTANT ENGINEERS (TWO).  
A.P.T. I (£1,010-£1,220).  
(2) JUNIOR ASSISTANT ENGINEER (ONE).  
A.P.T. I (£610-£765).  
(3) CLERK OF WORKS (ONE). A.P.T. I.

APPLICATIONS are invited for the ABOVE APPOINTMENTS within the prescribed grades. Candidates for appointments (1) must be qualified and have experience in the design and construction of improvement schemes and in the supervision of contract works.

Candidates for appointment (2) are required for work in connection with road planning and control of development. They should have knowledge of highway design and road safety principles.

Candidates for appointment (3) are required for the inspection of bridges and the supervision of small bridge repair contracts.  
The posts are located at the County Surveyor's Office, Reading, and will carry allowances or the option of accepting a Council-owned car on approved terms.

Forms of Application obtainable from the COUNTY SURVEYOR, Shire Hall, Reading, and returnable to him not later than 29th FEBRUARY, 1960.

BURGH OF GRANGEMOUTH.  
RESIDENT ENGINEER.

APPLICATIONS are invited for the APPOINTMENT of a RESIDENT ENGINEER in the Burgh Engineer's Department at a salary on the Professional Assistants Scale of £795, rising by annual increments of £35 to £1,075, with placing according to age and experience.

Applicants should be Corporate Members of the Institution of Civil Engineers or the Institution of Municipal Engineers, and will be required to supervise the construction of a major drainage scheme.

The appointment will be a temporary one for an initial contract period of 22 months, but with the possibility, subject to satisfactory service, of extension thereof. If required, temporary housing accommodation can be provided for the successful applicant, covering the period of service.

Applications, stating age, education, experience and qualifications, together with copies of two recent testimonials, should be sent to the undersigned not later than SATURDAY, 20th FEBRUARY, 1960.

W. BRYCE JOHNSTON,  
Town Clerk.  
Municipal Chambers,  
Grangemouth,  
2nd February, 1960.

## BOROUGH OF CASTLEFORD.

## BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the UNDER-MENTIONED APPOINTMENTS in the Borough Engineer and Surveyor's Department:—  
Senior Assistant Engineer, Special Grade (£785 to £1,070, commencing salary depending on experience but not less than £905).

Applicants should be corporate members of the Institution of Municipal and Surveyors Engineers and have had considerable experience in a municipal engineer's office.

Assistant Architect, Grade A.P.T. I (£610 to £765).

Applicants should have passed the Intermediate R.I.B.A. Examination, or its equivalent, at one of the recognised schools of architecture.  
The appointments are superannuable, subject to one month's notice on either side, and National Joint Council Service Conditions. The successful applicants will be required to pass satisfactorily a medical examination.

If required, housing accommodation will be provided for successful married applicants.  
Applications, on forms obtainable from me, to be returned by the 5th MARCH, 1960.  
Canvassing disqualifies.

ERNEST HUTCHINSON,  
Town Clerk.  
Town Hall,  
Castleford.

## BOROUGH OF ENFIELD.

## BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

## APPOINTMENT OF DEPUTY CLEANSING SUPERINTENDENT.

APPLICATIONS are invited for the PERMANENT APPOINTMENT OF DEPUTY CLEANSING SUPERINTENDENT at a salary in accordance with Grade A.P.T. I of the National Scheme of Conditions of Service (£610-£765 per annum plus a London Weighting allowance of £10-£30 per annum, according to age). The commencing salary will be in accordance with qualifications and experience.

Preference will be given to applicants who hold the Testamur of the Institute of Public Cleansing and have considerable experience in supervising collection and disposal of refuse and the maintenance of transport.

Application Forms, obtainable from MR. H. D. PEAKE, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middx., to be returned to the undersigned by the 29th FEBRUARY, 1960.

CYRIL E. C. R. PLATTEN,  
Town Clerk.  
Public Offices,  
Enfield, Middx.

## BOROUGH OF ENFIELD.

## BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

## APPOINTMENT OF TRENCH INSPECTOR.

APPLICATIONS are invited for the ABOVE PERMANENT APPOINTMENT at a salary in accordance with the Misc. Grade III of the National Scheme of Conditions of Service (£525-£590 per annum plus a London Weighting allowance of £10-£30 per annum, according to age). The commencing salary will be in accordance with experience.

The duties will include inspection and supervision of trench openings by contractors and public utility undertakers, together with inspection of road surfaces, etc.

Preference will be given to applicants who are conversant with the requirements of the Public Utilities Street Works Act and have experience in the keeping of records, and liaison with statutory undertakers is essential.

Application Forms, returnable by MONDAY, 29th FEBRUARY, 1960, to be obtained from MR. H. D. PEAKE, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middx.

CYRIL E. C. R. PLATTEN,  
Town Clerk.  
Public Offices,  
Enfield, Middx.

## APPOINTMENTS VACANT

## COUNTY BOROUGH OF ST. HELENS.

APPLICATIONS are invited for the APPOINTMENT of CHIEF ASSISTANT ENGINEER in the Borough Engineer's Department at a salary within A.P.T. Grade V (£1,220-£1,375 per annum), commencing salary to be fixed according to qualifications and experience.

Applicants must be Corporate Members of either the Institution of Civil Engineers or the Institution of Municipal Engineers.

The appointment will be terminable by one month's notice and will be subject to the Local Government Superannuation Acts, medical examination, and N.J.C. Service Conditions. The Council operates a 5-day working week.

Applications, giving the names of two referees, must be forwarded to the undersigned not later than MONDAY, 7th March, 1960.

Applicants must reveal relationship to any member or senior official of the Council.

Canvassing will disqualify.

M. WARD, M.I.Mun.E., M.T.P.I.,  
A.M.I.Struct.E.,  
Borough Engineer.  
Town Hall,  
St. Helens.

## BOROUGH OF WILLESDEN.

APPLICATIONS are invited from suitably qualified and experienced persons for the FOLLOWING PERMANENT APPOINTMENTS:

- (a) Senior Engineering Assistant within Scale "A" (£1,240 x £50—£1,390 p.a.).
- (b) Engineering Assistant within A.P.T. Special Grade (£785 x £40—£1,070 p.a.).
- (c) Engineering Assistant within Grade A.P.T. II (£765-£880 p.a.).
- (d) Engineering Assistant within Grade A.P.T. I (£610-£765 p.a.).

For all posts except (a) above, London Weighting maximum £30 p.a. is payable in addition to the salaries shown.

For post (a) above, preference will be given to candidates having above average experience in structural engineering or sewerage or highway works. The Council are unable to assist with housing accommodation.

Forms of Application and Conditions of Appointment may be obtained from the Borough Engineer and Surveyor, Town Hall, Dyne Road, Kilburn, N.W.6. Applications to be returned to the undersigned not later than MONDAY, 29th FEBRUARY, 1960.

The undersigned, writing for Application Forms, candidates must state for which appointment they wish to apply.

(Signed) R. S. FORSTER,  
Town Clerk.

1st February, 1960.

## BOROUGH OF WILLESDEN.

## BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the PERMANENT APPOINTMENT OF TECHNICAL ASSISTANT. Salary within A.P.T. II (£765-£880 p.a.) plus London Weighting, maximum £30 p.a.

Applicants should have had wide experience in the supervision and administration of minor civil engineering works undertaken by Direct Labour and Contract.

The Council are unable to assist with housing accommodation.

Details and Form of Application obtainable from the Borough Engineer and Surveyor, Town Hall, Dyne Road, Kilburn, N.W.6, and must be returned to the undersigned not later than 10 a.m. on MONDAY, 29th FEBRUARY, 1960.

(Signed) R. S. FORSTER,  
Town Clerk.

## BOROUGH OF WILLESDEN.

## BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the PERMANENT APPOINTMENT OF CLERK OF WORKS. Salary within A.P.T. III (£880-£1,065 p.a.) plus London Weighting maximum £30 per annum.

Applicants should have wide experience in the supervision during construction of civil engineering and building works of considerable magnitude. The Council are unable to assist with housing accommodation.

Details and Form of Application obtainable from the Borough Engineer and Surveyor, Town Hall, Dyne Road, Kilburn, N.W.6, and must be returned to the undersigned not later than 10 a.m. on MONDAY, 29th FEBRUARY, 1960.

(Signed) R. S. FORSTER,  
Town Clerk.

## BOROUGH OF WILLESDEN.

## BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the TWO PERMANENT APPOINTMENTS in the Building Surveyor's Section of the following:

- General Assistants within Grade A.P.T. II (£765-£880 p.a.) plus London Weighting maximum £30 per annum.

Applicants should have had experience of the general work of a Building Surveyor's Office and the administration of building by-laws and the Town Planning Acts. For one post, experience of dealing with the control of advertisement will be an advantage.

The Council cannot assist with housing accommodation.

Details and Form of Application obtainable from the BOROUGH ENGINEER, Town Hall, Dyne Road, Kilburn, N.W.6, and must be returned by 9 a.m., MONDAY, 29th FEBRUARY, 1960.

## BOROUGH OF LEYTON.

## APPOINTMENT OF CLERK OF WORKS—MAIN DRAINAGE.

APPLICATIONS are invited for the ABOVE APPOINTMENT in the Borough Engineer's Department. Salary £18-£20 per week, to be fixed within this range in accordance with experience and qualifications.

The appointment is for a period of two years, subject to satisfactory service, with the possibility of further service thereafter, to a medical examination, and to the National Scheme of Conditions of Service. Applicants should have had extensive experience on large main drainage contracts and the successful applicant will be required to commence his duties in June, 1960.

Applications, giving age, training and full details of previous experience, and the names and addresses of two persons to whom reference may be made, to be received by the Borough Engineer, Town Hall, Leyton, E.10, not later than SATURDAY, 27th FEBRUARY, 1960.

D. J. OSBORNE,  
Town Clerk.  
Town Hall,  
Leyton, E.10.



## APPOINTMENTS VACANT

## KENYA.

MINISTRY OF WORKS.  
ENGINEERS (ROADS).

Qualifications: Candidates (not over 45) should have either a University degree, or equivalent, recognised by the Institution of Civil Engineers and two years' practical experience; or have passed, or be otherwise exempt from, Parts I and II of the Final Examinations of the Institution of Civil Engineers and have had not less than five years' practical experience.

Experience should include one or more of the following: (a) Location and preparation of plans and contract documents for the construction of trunk roads; (b) design of roads for rural and urban areas; (c) construction of roads and bridges with modern equipment, either by contract or direct labour. Some knowledge of soil mechanics is required, and experience of soil stabilisation would be an advantage.

Duties will include all aspects of road engineering, including planning and supervision both in the office and in the field.

Terms: On contract for one tour of 24-45 months in the first instance, with salary in scale £1,194 to £1,863 p.a. and gratuity on the satisfactory completion of engagement.

Free passages. Generous home leave. Free medical attention. Taxation at local rates.

Apply DIRECTOR OF RECRUITMENT, Colonial Office, London, S.W.1. Give full name and age, and brief details of qualifications and experience. Quote BCD112/7/09/D14.

## HOLLAND (Lincs.) COUNTY COUNCIL.

## APPOINTMENT OF SENIOR ASSISTANT ENGINEER.

A.P.T. GRADE IV (£1,065-£1,220).

APPLICATIONS are invited from qualified Civil or Municipal Engineers for the ABOVE APPOINTMENT. Applicants should have had good experience in the preparation and control of road and bridge schemes. The salary will be in accordance with A.P.T. Grade IV and the starting point will be determined by qualifications and experience.

The appointment is subject to the National Scheme of Conditions of Service and to the Local Government Superannuation Acts. An essential user car allowance will be paid. The Council are prepared to contribute to cost of removal.

Further particulars may be obtained from me. Applications, in a prescribed manner, should be submitted not later than 3rd MARCH.

G. E. BETTS,  
County Surveyor.County Hall,  
Boston, Lincs.  
8th February, 1960.

## COUNTY BOROUGH OF HUDDERSFIELD.

BOROUGH ENGINEER AND SURVEYOR'S  
DEPARTMENT.

APPLICATIONS are invited for ASSISTANT ENGINEERS at a salary in accordance with Grade A.P.T. IV (£1,065 to £1,220 per annum), for work on roads, sewers, sewerage works extensions, and on general municipal engineering work.

Applicants should be Associate Members of the Institution of Civil Engineers or the Institution of Municipal Engineers.

The appointments are superannuable and subject to medical examination. Canvassing is prohibited and will be considered a disqualification.

Applications, giving age, experience, and the names of not more than three referees, should reach A. L. PERCY, M.I.C.E., Borough Engineer and Surveyor, High Street Buildings, Huddersfield, not later than SATURDAY, the 5th March, 1960.

HARRY BANN,  
Town Clerk.Town Hall,  
Huddersfield.  
February, 1960.

## BOROUGH OF BARKING.

MASON PAIORS (T.U.) REQUIRED, hourly rate 4s. 11½d. per hour (£11 4s. 4d. per 44-hour week). Superannuation and sick benefit schemes.—Apply BOROUGH ENGINEER AND SURVEYOR, Town Hall, Barking, Essex.

## BOROUGH OF ENFIELD.

BOROUGH ENGINEER AND SURVEYOR'S  
DEPARTMENT.

APPOINTMENT OF ENGINEERING ASSISTANT.  
(Population approx. 109,300. Area 12,401 Acres.)

APPLICATIONS are invited for the ABOVE PERMANENT APPOINTMENT at a salary in accordance with Grade A.P.T. II of the National Scheme of Conditions of Service (£765-£880 per annum, with the addition of London Weighting of £10-£30 per annum, according to age). Commencing salary will be fixed at a point within the scale commensurate with qualifications and experience.

Applicants should have completed their professional training under the scheme for the training of Municipal or Civil Engineers. Opportunity will be afforded to gain experience in all phases of Municipal Engineering.

Saturday mornings are normally free of duty. Application Forms, obtainable from MR. H. D. PEAKE, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middx., must be delivered to the undersigned not later than MONDAY, 29th February, 1960.

CYRIL E. C. R. PLATTEN,  
Town Clerk.Public Offices,  
Enfield, Middx.HARLOW DEVELOPMENT  
CORPORATION.

## APPOINTMENT OF INSPECTOR/CLERK OF WORKS.

APPLICATIONS are invited for the ABOVE TEMPORARY APPOINTMENT on the Staff of the Resident Engineer to supervise the construction of sewage treatment works extensions at Rye Meads, near Hoddeston, Hertfordshire. The successful applicant will be engaged primarily on the supervision of reinforced concrete works and pipelaying.

The salary will be within £765-£880 per annum scale, and point of entry will be according to qualifications and experience.

Experience in supervising building works is not essential, but consideration will be given to such additional qualifications in fixing the starting salary. Accommodation may be available in Harlow.

The appointment, which will be taken up in April, 1960, is expected to last about two years and will be terminable by one month's notice on either side.

Applications, endorsed "Clerk of Works, Rye Meads", giving details of age, qualifications and experience, together with names of two referees, should reach the GENERAL MANAGER, Terlings, Harlow, Essex, before 1st MARCH, 1960.

## APPOINTMENTS VACANT

## NATIONAL COAL BOARD.

## EAST MIDLANDS DIVISION.

CIVIL/STRUCTURAL ENGINEER REQUIRED on the permanent staff of the Chief Civil Engineer at 69 Lower Parliament Street, Nottingham. Salary within range £900-£1,400, according to qualifications and experience.

The duties involve the design and execution of large colliery projects and reconstruction schemes. Applicants should have some experience of some of the following works, preferably for industrial projects: Steel or reinforced concrete design and construction, industrial building construction, drainage and sewerage, railway sidings and their ancillary services. Candidates should be Corporate Members of the Institution of Civil or Structural Engineers.

Applications, giving age and full details of education, qualifications, experience, present position, and salary, in writing, within seven days, quoting S.V.1030, to DIVISIONAL CHIEF STAFF OFFICER, National Coal Board, East Midlands Division, Sherwood Lodge, Arnold, near Nottingham.

## LONDON COUNTY COUNCIL.

CLERKS OF WORKS REQUIRED on multi-storey housing schemes to act in first instance as assistants. Commencing salary between £815 and £890, with scope for advancement to senior posts for men of ability.

Applicants should possess sound knowledge of building construction, have served full trade apprenticeship and had experience in supervisory capacity on multi-storey housing contracts. Experience in reinforced concrete work an advantage.

Application Form, returnable by 5th MARCH, from ARCHITECT, EK/29/60, County Hall, S.E.1. (283)

## COUNTY BOROUGH OF PRESTON.

APPLICATIONS are invited for a SENIOR QUANTITY SURVEYOR in the Borough Engineer and Surveyor's Department. Salary A.P.T. Grade IV (£1,065-£1,220 per annum), commencing figure to be fixed according to qualifications and experience.

Candidates should be chartered surveyors, and have had extensive experience in the preparation of Bills of Quantities and Estimates, valuation of works in progress and settlement of final accounts.

The National Scheme of Conditions of Service and Local Government Superannuation Act apply to the appointment, and the successful candidate will be required to state a medical examination.

Forms of application can be obtained from the undersigned, to whom they must be returned completed by 7th MARCH, 1960.

W. E. E. LOCKLEY,  
Town Clerk.Municipal Building,  
Preston.METROPOLITAN BOROUGH OF  
CAMBERWELL.

## CLERK OF WORKS.

APPLICATIONS invited for this POST in Borough Engineer and Surveyor's Department at a salary of £15 per week. The appointment is in connection with the widening of part of the London Lane and will be for a period of approximately six months commencing in June. Applicants must have a sound experience in setting out, levelling and construction of roadworks, including the laying of hot-rolled and mastic asphalt. Duties will include the supervision of works by contract, site measurements and reports.

Applicants, stating age and experience, together with names of two referees, to TOWN CLERK, Town Hall, S.E.5, by MONDAY, 7th March, 1960.

## BOROUGH OF BARKING.

BOROUGH ENGINEER AND SURVEYOR'S  
DEPARTMENT.

APPLICATIONS are invited for the APPOINTMENT of an ASSISTANT HIGHWAYS SUPERINTENDENT with Grade A.P.T. I (salary scale £610-£765 p.a.), plus appropriate London Weighting. The commencing salary will be dependent upon qualifications and experience. Candidates should have had general experience in the setting out and control of public works and, in particular, road and sewer works. The Council are carrying out a large and varied programme of constructional and maintenance work involving the wide use of mechanical equipment and plant.

Preference will be given to applicants who are members of the Institute of Works and Highways Superintendents.

Applications, on forms which may be obtained from the Borough Engineer and Surveyor, Town Hall, Barking, should be returned to the undersigned not later than 9 a.m. on the 25th FEBRUARY, 1960.

E. R. FARR,  
Town Clerk.Town Hall,  
Barking, Essex.

## FORMBY URBAN DISTRICT COUNCIL.

## AMENDED ADVERTISEMENT.

## CONSTRUCTION OF SEWAGE DISPOSAL WORKS.

## APPOINTMENT OF RESIDENT ENGINEER.

APPLICATIONS are invited from experienced persons for appointment as RESIDENT ENGINEER to supervise the construction of the above works under the direction of the consulting engineers.

subject to satisfactory service, it is expected that the appointment will be for a period of 15 months and the salary will be £1,250 per annum. Housing accommodation will be provided, if necessary.

Applications, stating age, qualifications, and giving full particulars of experience, together with the names of three engineers or previous employers to whom reference can be made, should be delivered to the CLERK OF THE COUNCIL, Council Offices, Formby, near Liverpool, not later than SATURDAY, 27th February, 1960.

BASILDON DEVELOPMENT  
CORPORATION.

## CHIEF ENGINEER'S DEPARTMENT.

## APPOINTMENT OF CLERK OF WORKS.

APPLICATIONS are invited for the ABOVE APPOINTMENT within the salary scale £765-£880 per annum. Candidates should have experience in the supervision of the construction of roads, sewers, footways, services, etc. Experience of setting-out and measurement of contract work would be an advantage.

The successful candidate will be required to supervise a contract of about 12 months' duration, with possible further contracts to follow.

The appointment is superannuable and subject to one month's notice on either side.

Applications, stating age, details of experience, and names of two referees, should be sent to the GENERAL MANAGER, Efford House, Basildon, Essex, by WEDNESDAY, 24th February, 1960, quoting Ref. No. GM5896.

## APPOINTMENTS VACANT

BRITISH SOLOMON ISLANDS  
PROTECTORATE.

## CIVIL ENGINEERS.

## PUBLIC WORKS DEPARTMENT.

Qualifications: Candidates, preferably under 35, should have either a University degree, or equivalent, recognised by the Institution of Civil Engineers, plus two years' practical experience; or have passed, or be otherwise exempt from, Parts I and II of the Final Examinations of the Institution of Civil Engineers and have had not less than five years' practical experience in reinforced concrete design desirable.

Duties: The design and supervision of civil engineering works, including roads, bridges, water supplies, airfields, etc.

Terms: Appointment either permanent and pensionable (subject to probation) or on contract with gratuity. Emoluments in scale £961 to £1,860 pensionable, or £1,152 to £1,860 on contract. Free passages. Taxation at local rates. Generous home leave.

Apply DIRECTOR OF RECRUITMENT, Colonial Office, London, S.W.1. Give full name and brief details of age, qualifications and experience. Quote BCD112/45/04/D14.

## BRITISH TRANSPORT COMMISSION.

BRITISH TRANSPORT DOCKS invite APPLICATIONS for RESIDENT ENGINEER at King George Dock, Hull. He will be responsible to the Chief Dock Engineer for the supervision of a series of civil engineering contracts (aggregate value some £3m.), extending over a period of about three years, including the construction of reinforced concrete quays, transit sheds, concrete and steel structures, buildings, extensive roadworks, and permanent way installations.

A candidate for this position must be a Chartered Civil Engineer with considerable experience in dock and harbour engineering construction, including piling, and be available, if selected, to take up the appointment at an early date.

Salary, according to qualifications and experience, in the region of £1,500 per annum.

Applications, giving particulars of age, qualifications, recent experience, and references, to STAFF AND ESTABLISHMENT OFFICER, British Transport Docks (C.J.), 163 Euston Road, London, N.W.1, to arrive not later than FRIDAY, 26th February, 1960.

## COUNTY BOROUGH OF EAST HAM.

ENGINEERING ASSISTANTS—A.P.T.I.  
SALARY UP TO £795 PER ANNUM.

Subsistence allowances may be granted over a reasonable period to persons appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Further details and Application Forms, returnable by 4th MARCH 1960, from the TOWN CLERK, Town Hall, East Ham, E.6.

## COUNTY BOROUGH OF EAST HAM.

APPLICATIONS are invited for the FOLLOWING TEMPORARY APPOINTMENT of approx. 12 months on contract at Hoddeston. Applicants must have had comprehensive experience, preferably in similar position.

Clerk of Works (Roads and Sewers), A.P.T. I—Salary scale £610-£765 p.a.

Forms of application, returnable by 4th MARCH, 1960, from the TOWN CLERK, Town Hall, East Ham, E.6.

## METROPOLITAN WATER BOARD.

GANGER, with civil engineering experience, REQUIRED by Metropolitan Water Board for general work on new river between Hoddeston and Ware. Wages £11 for 44-hour week. Appointment to permanent staff optional to suitable candidate after 12 months' service.

Written applications, stating age and experience, to Resident Supply Engineer, M.W.B. Works, Lea Bridge Road, E.5.

Canvassing disqualifies and relationship to any member, officer or employee must be disclosed.

S. D. A. YOUNG,  
Clerk of the Board.TOWCESTER RURAL DISTRICT  
COUNCIL.

DEPUTY RESIDENT ENGINEER REQUIRED immediately to supervise the construction of sewers and sewage disposal works at Blisworth. Salary up to £1,000 per annum. Applications to HOWARD HUMPHREYS AND SONS, Victoria Station House, Victoria, London, S.W.1. Please quote Ref. 391.

## COVENTRY CORPORATION.

JUNIOR ASSISTANT ENGINEERS REQUIRED in connection with a comprehensive main drainage capital works programme involving an initial expenditure of over £1m. during the next 12 months.

Salary grade (up to Special, £785-£1,070) and commencing salaries according to qualifications/experience.

Housing accommodation may be available, together with removal expenses loan.

Application Forms from CITY ENGINEER, Council House, Coventry, returnable by 29th FEBRUARY.

## COVENTRY CORPORATION.

THE FOLLOWING STAFF REQUIRED for Civil and Structural Engineering Section:

(a) Assistant Engineer (Civil Engineering)—Special Grade (£785-£1,070). Commencing according to qualifications/experience. Some previous experience design and construction of highway bridges and foundations desirable.

(b) Assistant Engineers (Structural)—Grade A.P.T. IV (£1,065-£1,220). Commencing according to qualifications/experience. Previous experience design and detailing reinforced concrete and/or steel structures essential.

Programme of major development works offers exceptional opportunities for experience of interesting and varied nature. Appropriate professional qualifications desirable. Housing accommodation may be available, together with removal expenses loan.

Application Forms from CITY ENGINEER, Council House, Coventry, returnable by 29th FEBRUARY.

## SUPERVISOR REQUIRED for erection of precast concrete flooring. Previous experience in this class of work preferred, design experience essential. Applicants must be capable of taking responsibility and progressing work from design stage to completion. Excellent opportunity for work with drive, initiative and ability. — Write Box V.1207, "The Contract Journal."

GEE, WALKER AND SLATER, LTD., REQUIRE experienced SITE ENGINEERS for building and civil engineering contracts in the London area.—Write, giving details of experience, salary required, and when available, to 100 Park Lane, W.1.



## APPOINTMENTS VACANT

**ASSISTANT ESTIMATING SURVEYOR** REQUIRED by national firm of contractors at their Midlands office. Must be experienced in the preparation of bills of quantities and be able to prepare material schedules for ordering. — Write, giving full particulars of age, experience and salary, to Box V.1194, "The Contract Journal."

**SITE CASHIER.** Applications invited from experienced men who have been site cashiers for at least the past five years and bonded and worked for a reputable national contractor, for large jobs in the Midlands area. Top salary and expenses offered to the right man. — **WILSON LOVATT AND SONS, LTD.**, Clarence Street, Wolverhampton.

**SURVEYOR.** Applications invited from men, age range 26-45, who have had recent past experience in successful handling of final accounts for large building contracts works, including monthly certificates and variations, etc. Working from Wolverhampton as a base and visiting several jobs. — Applications should give full details of recent record of employment with a similar company, and responsibilities, addressed to Personnel Manager, **WILSON LOVATT AND SONS, LTD.**, Clarence Street, Wolverhampton.

**GENERAL FOREMAN REQUIRED** by national contractor for speculative housing in the Reading and Southampton areas. Permanent well-paid pensionable positions for experienced men. — Full particulars to Box V.1195, "The Contract Journal."

**GENERAL FOREMAN (Building).** Applications invited from senior General Foremen who are at the top of their grade and have handled large building contracts in recent years, using initiative in site administration and practical application of all modern techniques, for work in the Midlands area. Carpenter and joiner background preferred. A good salary and expenses and other staff terms will be available to the successful applicant. — **WILSON LOVATT AND SONS, LTD.**, Clarence Street, Wolverhampton.

**QUANTITY SURVEYOR REQUIRED** for building contracts, involving all trades. Huddersfield office. — Write Box V.1081, "The Contract Journal."

## BRITISH CONSTRUCTIONAL STEELWORK ASSOCIATION

Applications are invited for **APPOINTMENTS** to the development staff and to the bridge department. Candidates should be young men with some experience in the design and detailing of steel-frame buildings, with knowledge of B.S.449, or with experience in the design of steel bridges, with knowledge of B.S.153. 5-day week and luncheon vouchers. Admission to non-contributory pension scheme after qualifying period. Apply, in confidence, giving fullest details, with salary required, to:

The Technical Adviser.

**BRITISH CONSTRUCTIONAL STEELWORK ASSOCIATION**

Artillery House, Artillery Row, London, S.W.1.

**CIVIL ENGINEERING ESTIMATORS REQUIRED** by **SHEPARD, HILL AND CO., LTD.** to work from London office. Preference will be given to Engineers having practical knowledge, age between 30-40 years. Excellent prospects for experienced man able to work on own initiative. Top salary and expenses will be paid to the successful applicants. — Write, giving full details, to Managing Director, **SHEPARD, HILL AND CO., LTD.**, 25/27 Central Chambers, W.5.

**LANDSCAPE CONTRACTOR REQUIRED** for working on projects connected with sportsfields, swimming pools, housing estates, etc. — Write, giving full particulars of experience and wages required, to Box V.1089, "The Contract Journal."

**CIVIL ENGINEERING ESTIMATOR.** — Application from experienced, well qualified and having spent recent years estimating for civil engineering work, including reinforced concrete, with well known contracting firms. Applications will be treated in strict confidence and should be addressed to **WILSON LOVATT AND SONS, LTD.**, Clarence Street, Wolverhampton.

**THOMAS LOWE AND SONS, LTD.**, of Curzon Street, Burton-on-Trent, have a vacancy for a **GENERAL FOREMAN** capable of taking charge of building contracts in the Birmingham area up to a value of £200,000. — Applications should be submitted in writing, stating age, experience and salary required.

## BUILDING SURVEYOR/ESTIMATOR

**REQUIRED** by **W. H. ALLEN, SONS AND CO., LTD.** The successful applicant will be responsible to the works engineer for the design, construction, operation and financial administration of a progressive building maintenance scheme. Age should be between 25-35 years and qualifications should include, for preference, A.R.C.S. The company has an excellent pension and life assurance scheme in operation, and offers good working conditions and welfare amenities. Assistance will be given towards moving expenses. Applications, in writing, stating details of past experience and present salary, and quoting Ref. 1602/C1, should be forwarded to:

The Personnel Manager.

**W. H. ALLEN, SONS AND CO., LTD.**

Bedford.

**THOMAS LOWE AND SONS, LTD.**, of Curzon Street, Burton-on-Trent, have a vacancy in their Birmingham office for a **PLANNING ENGINEER** to organise preplanning, progressing and bonusing. Previous experience not essential but knowledge of site organisation is necessary. Consideration will be given to applicants who are prepared to be trained in this work. — Applications should be submitted in writing, stating age, experience, and salary required.

**BUILDING SURVEYORS REQUIRED** by a national building and civil engineering contractor. These positions are permanent, progressive and superannuated. — Write, giving full details, salary required, and areas of preference, to Box V.1197, L.P.E. Romano House, 399/401 Strand, London, W.C.2.

**NATIONALLY** known plant hire company, opening new offices and works in the Manchester area, **REQUIRE** services of a competent and experienced man to take charge of the hire department and work under area manager. Must be conversant with the full range of contractors' plant and machinery, hire rates, wages, records, etc. Preference would be given to men with local connections, but this would not preclude other applicants with the necessary experience. Front-sharing and pension scheme in existence. Present employees of company have been informed of this vacancy. — Please write, stating age and full details of experience, to Box V.1188, "The Contract Journal."

## APPOINTMENTS VACANT

**JUNIOR ENGINEER.** with site experience and capable draughtsman. **REQUIRED** by company specialising in formwork and temporary structures. Salary by arrangement. — Write brief details to **GUYREX EQUIPMENT, LTD.**, 25 Craven Street, London, W.4.

**QUANTITY SURVEYOR/ESTIMATOR** to deal with inquiries, interim certificates and final accounts. **REQUIRED** for building and civil engineering contractors. Pension and life assurance scheme. Applicant required to be car driver and aged under 40. — Apply by letter, stating experience and salary required, to **T. HOLDOWAY AND SONS, LTD.**, Westbury, Wilts.

**EXPERIENCED ASSISTANTS REQUIRED** for surveyors department of expanding building and civil engineering contractors. Pension and life assurance scheme. — Apply by letter, stating age, experience and salary, to **T. HOLDOWAY AND SONS, LTD.**, Westbury, Wilts.

**ESTABLISHED** company of building and civil engineering contractors **REQUIRE** an **ASSISTANT ENGINEER** for head office duties in connection with large-scale water and gas mainlaying contracts throughout the country. Applicants should preferably be technically qualified, understand modern pipeline techniques, including welded steel mains, and have had a period in a responsible position on mainlaying contracts. Duties will comprise all aspects of contract planning, liaison between site and head office, material ordering and control, and general duties as Assistant to the Contracts Manager. This appointment is required due to the expansion of the division. A permanent position is intended and a superannuation scheme is in operation. Applicants should write in the first instance for an hourglass form. Please write, stating age, experience and salary, to **G.W.A., THE NORWEST CONSTRUCTION CO., LTD.**, Ruthven Road, Litherland, Liverpool, 21.

## SENIOR SITE AGENTS

Capable men accustomed to handling contracts in the region of £500,000 are **REQUIRED** by leading building contractors for their Manchester branch. Superannuation scheme in operation. — Apply, with full details, to:

**BERNARD SUNLEY AND SONS, LTD.**

Portland Street, Manchester, 1.

**FOREMAN FITTER REQUIRED** by nationally known plant hire company opening new offices and works in the Manchester area. Must be conversant with full range of medium-size contractors' plant and equipment. This is a permanent job for the right man; fixed salary would be paid, with participation in profit-sharing and pension scheme or, if preferred, hourly rate. Please write, stating age and full details of previous experience, to Box V.1189, "The Contract Journal."

**CONTRACTOR'S SURVEYOR REQUIRED** for an expanding firm of reinforced concrete specialists. Applicants, preferably 25-35, must have experience in interim and final valuations, with some knowledge of taking-off and price build-up for all trades. This is an excellent opening for a man with drive and initiative to secure progressive position in a well-established firm with good connections. Give details of age, experience and present salary to Chief Surveyor, **THE LONDON FERRO-CONCRETE CO., LTD.**, Maxted Road, Hemel Hempstead, Herts.

**RUDDOCK AND MEIGHAN, LTD.**, have a vacancy for an **ENGINEER/AGENT**. Candidates need not necessarily be qualified but must have had good experience in general civil engineering works. Permanent position with progressive prospects for advancement. Pension scheme in operation. — Apply, giving details of age, experience, and indication of salary, to Burford House, Harrow View, Wealdstone, Middlesex.

**CONSULTING ENGINEERS** have vacancies for **JUNIOR ASSISTANTS** for water supply and sewerage work in the West of England. Salary will be according to age and experience. — Full details to Box V.1170, "The Contract Journal."

**DESIGNER-DRAUGHTSMAN REQUIRED** for office engaged in precast concrete and in-situ floors. Previous experience preferred but applicants with suitable experience will be considered provided they are adaptable and competent draughtsmen. — Write Box V.1208, "The Contract Journal."

## CAN YOU SELL PLANT?

**HANGERS PLANT DIVISION** need a top-class **SALESMAN** to sell contractors' plant. Successful applicant must have the following qualifications:

- (1) Have proven sales record (preferably in contractors' plant).
- (2) Be between 25 and 35 years old.
- (3) Currently be earning at least £1,000 per annum, and not satisfied with present income.

Remuneration will be by salary plus commission on profit, which will enable good man to earn at least £1,250 per annum, and an outstanding man much more. This vacancy is for a man that can really sell and enjoys doing so. Hangars, in addition to being sole distributors for J.C.B. earthmoving equipment for Worcs., Warwick, and South Staffs., have agencies for Liner dumpers and concrete machinery, Allam vibrators and portable generators, County Crawler tractors, Onions scrapers. Our advertising and sales promotional activities give every support to our sales staff. — Write, giving background of experience and all pertinent personal information, in confidence, to:

Plant Manager,  
**HANGER PLANT DIVISION,**  
2 Alcester Road, Bromsgrove.

**EXPERIENCED SURVEYOR REQUIRED** on interim valuation and final accounts for civil engineering contracts, to operate from head office. Permanent position with pension rights. — Write in confidence, giving age, details of experience, previous employers, and salary required, to General Manager, **TILBURY CONSTRUCTION CO., LTD.**, Ruscombe Works, Twyford, Berks.

**AGENT AND SITE ENGINEER REQUIRED** for road contracts, by expanding firm of contractors. Top salary and prospects for men with ambitions. — Apply **GALLIFORD AND SONS, LTD.**, Wolvey, Hinckley, Leicester.

**PAVING AND KERBLAYS REQUIRED.** — **GALLIFORD AND SONS, LTD.**, Wolvey, Hinckley, Leicester.

**FENCING EXPERT REQUIRED.** capable of working on own initiative and able negotiate at top level. Only gentlemen conversant with all aspects of wood fencing, etc., including costings, contracts and supervision of work, etc., are invited to apply. Good salary offered to right man. Present staff advised of vacancy. — Write Box V.9812, "The Contract Journal."

## APPOINTMENTS VACANT

**YOUNG Graduate CIVIL ENGINEER REQUIRED** by old-established firm dredging contractors. Previous experience not essential. Employment on permanent basis, with full staff benefits, for right man. — Write Box V.1054, "The Contract Journal."

**ROBERT M. DOUGLAS (CONTRACTORS), LTD.**, Quantity Surveying Department. — **QUANTITY SURVEYORS REQUIRED** for work in Great Britain, with at least three years' experience of final accounts for civil engineering and building works of £100,000 and above. Excellent prospects for men of initiative and ability. Remuneration by arrangement. Pension scheme. — Write, giving details of age, education, experience, and salary, to 395 George Road, Erdington, Birmingham, 25.

**ROBERT M. DOUGLAS (CONTRACTORS), LTD.**, AGENTS, SUB-AGENTS, GENERAL FOREMEN, FOREMEN AND GANGERS for work in general civil engineering and building works, in any part of the country. — Apply in writing, stating age, experience, qualifications, and salary required, to 395 George Road, Birmingham, 25.

**CAPABLE MAN REQUIRED** for plant hire department. Good prospects for the right man. Write, giving details, to **METROPLANT, LTD.**, 169/171 Cricklewood Broadway, London, N.W.2.

**WANTED, SITE CLERK** for contracts in Devon and Cornwall. Permanent. Good remuneration and subsistence paid to suitable applicant. Write Box V.1180, "The Contract Journal."

## CIVIL ENGINEERS—INDIA

Applications are invited for vacancies on a heavy civil engineering project in India as follows:

## SENIOR ENGINEER

With considerable contracting experience as agent, or as senior engineer on large projects, to take charge of construction in a major area with turnover of approx. £100,000 per month. Salary in the region of £2,750 p.a. tax free.

## SECTION ENGINEERS

28-35 years of age, with contracting experience on medium to large projects as engineer or sub-agent. Salaries in the region of £2,500 p.a. tax free. Tours are for 18 months on a single basis, though for the senior appointment only family accommodation may be available at a later date. A site bonus scheme is in operation. — Please write, giving brief details of experience and qualifications, to:

The Personnel Officer.

**THE CEMENTATION CO., LTD.**  
20 Albert Embankment, London, S.E.11.

**ENGINEER:** Housing Development division (centred in Surrey) of substantial construction company **SEEK** services of an **ENGINEER**, age 25-35, for work on the design of housing estate schemes, including site surveys and preparation of drawings. Good knowledge of sewerage and road design and good draughtsmanship essential. Pensionable, permanent position with good prospects. Assistance can be given with living accommodation. — Apply, stating age, qualifications, commencing salary required, and giving full details, to Box V.1211, "The Contract Journal."

**JAMAICA.—TECHNICAL SALES REPRESENTATIVE REQUIRED** for leading distributors of earthmoving and allied equipment. Sound technical knowledge and wide practical experience essential. Applicants should be single, between ages of 25 and 44. Excellent prospects. — Write in strict confidence, giving full details of previous employment and types of equipment handled, to Box V.1200, "The Contract Journal."

**A.M.I.C.E. REQUIRED**, aged about 35, for a virile and expanding firm. Must be first-class engineer and estimator with the drive, personality and administrative ability needed to produce results; capable of controlling throughout medium-sized road, sewer, bridge, etc., contracts from tendering, setting out, site measurements to final certificate. Prospects unlimited. A man of the right calibre, even if not academically qualified, would also be considered. Write, giving full particulars of age, education, to **FARMILOE AND MCVIE, LTD.**, 10 High Street, Welwyn, Hertfordshire.

**COST AND MEASURING SURVEYOR REQUIRED** for building and civil engineering. Apply in confidence, giving details of experience, training, age, and approx. salary required, to **RILEY AND WHISHAW, LTD.**, Haslemere, Surrey.

## SURFACE MAINTENANCE SERVICES, LTD.

**REQUIRE** contract site staff for the following vacancies on civil engineering contracts in the Home and Southern Counties:

## ENGINEER AGENTS

Several years' experience with contractors in charge of general civil engineering contracts up to £100,000.

## SITE ENGINEERS

Experienced in setting out, measuring for interim accounts, design of temporary works, etc.

## GENERAL FOREMEN

Preferably tradesmen, experienced in control of road works, including bridging, etc.

## SECTION FOREMEN

Experienced in heavy drainage and surface work. The positions offered are permanent with excellent opportunities of promotion. — Applicants should write, giving full details of past experience, name of present employer, date available, and quoting two references, to:

Personnel Manager.

**SURFACE MAINTENANCE SERVICES, LTD.**  
124 Old Christchurch Road, Bournemouth.

**ASSISTANT CIVIL ENGINEERS REQUIRED** for contracts in the North of England. Applicants must be accurate with instruments and have initiative, drive, and have had site experience. — Write, stating age, experience and salary required, to Box V.1210, "The Contract Journal."

**SURFACING CONTRACTORS REQUIRED** an **ASSISTANT TO MANAGER** in London area. Must have knowledge of estimating, supervision of tarmacadam and asphalt contracts and prepare final accounts. — Write, stating previous experience and salary required, Box V.1178, "The Contract Journal."

**FOREMAN REQUIRED** immediately for south-western area. Experienced in general road work, drainage, etc. Permanent position. — Reply Box V.1212, "The Contract Journal."

**SITE AGENTS AND GENERAL FOREMEN.** If you can earn a high salary and are competent to accept one of these appointments for housing and flat construction in the Midlands and elsewhere, apply to **C. BRYANT AND SONS, LTD.**, Whitmore Road, Small Heath, Birmingham, 10.

## APPOINTMENTS VACANT

**REQUIRED: ENGINEERS** for planning and design in offices. Applicants must have had experience in planning of civil engineering or building contracts, or design of reinforced concrete and temporary structures. Salary commensurate with experience. Bonus and pension scheme in operation. Applications should be addressed to Personnel Officer, TARMAC CIVIL ENGINEERING, LTD., Ettingshall, Wolverhampton.

**OFFICE MANAGER REQUIRED** for builders' office in Hambleton. Experienced in industry and able to keep costs and accounts. Reply to Box V.1147, "The Contract Journal," quoting Ref. QRS/7.

**JUNIOR SURVEYOR REQUIRED** by civil engineering and building contractors in Middlesex. Applicants must be capable of preparing site measurements for interim/final accounts and sub-contractors. Good prospects for a young man with initiative. Write, giving full details of experience, age, and salary, required, to Box V.1196, "The Contract Journal."

## SHELLABEAR PRICE, LTD.

REQUIRE experienced SITE ENGINEERS for major roadworks in Lincolnshire and Elsewhere.

SHELLABEAR PRICE, LTD.,  
Auckland House,  
New Zealand Avenue, Walton-on-Thames, Surrey.

**TARSLAG, LTD.**, have vacancies for experienced SITE ENGINEERS who wish to undertake more responsible positions as SUB-AGENTS and SENIOR ENGINEERS on various interesting contracts centralised in North Midlands. Age 25 to 30, with a minimum of five years' contracting experience. Apply to Upper Wortley Road, Rotherham.

**GENERAL FOREMAN REQUIRED** for private estate development in Shrewsbury. About 100 houses annually. All trades, including roadmaking and sewerage. Apply FLETCHER ESTATES (HARLESCOTT), LTD., Whitchurch Road, Shrewsbury. Tel. 4436.

**ROOFING CONTRACTORS**, old-established in the Midlands, REQUIRE GENERAL FOREMAN. Excellent opportunity for first-class man with sound, practical knowledge of slating and tiling. Reply, stating age, qualifications, and salary required, to Box V.1174, "The Contract Journal."

**ENGINEER-AGENT REQUIRED** for large contract in the Midlands. Applicants must be thoroughly experienced in reinforced concrete and deep excavation. This post offers excellent prospects in an expanding organisation. Applicants should apply in writing, giving full details of past experience, age, qualifications, etc., to: MANAGING DIRECTOR, 11 Booth Street, Birmingham, 21.

## TRAINEE DRAUGHTSMEN

**HUMPHREYS AND GLASGOW, LTD.**, are prepared to train skilled CARPENTERS as CIVIL ENGINEERING DRAUGHTSMEN. Applications, in writing, giving full details of experience, etc., are invited from men willing to learn and work hard to improve their future prospects. Salary increases at six-monthly intervals during training. Five-day week. Pension scheme. Applications should be addressed to:

M. Liddle,  
HUMPHREYS AND GLASGOW, LTD.,  
22 Carlisle Place, London, S.W.1.

**CIVIL ENGINEER** for road works, based on Glasgow, REQUIRED by old-established company. Capable of setting out works and taking control of medium-sized contracts. The post is permanent and pensionable, with good prospects of advancement for a man with drive and initiative. Our staff notified. Write in confidence, giving details of age, experience and salary required, to Box V.1203, "The Contract Journal."

**GENERAL FOREMAN** (civil engineering): Applications invited from Senior General Foreman, top of their grade in reinforced concrete work of all classes, including factories and industrial works, for the Midlands area. Experienced in using initiative in site administration with minimum of supervision and practical application of all modern techniques. Send full details of training and experience to WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

**AGENTS REQUIRED**, fully experienced in control from start to final certificate, working from head office for: (1) Schools, factories, houses, and similar public and private building; (2) roads, sewerage and other civil engineering works. Excellent terms and prospects for right men. Bonus and pension schemes in operation. Applications to: WINTON HAYES, LTD., Biggleswade, Beds.

## SENIOR SURVEYOR

A vacancy exists with well-known building and civil engineering contractors in West Middlesex for a SENIOR SURVEYOR with sound knowledge and experience of interim valuations and final accounts. A salary range of £1,250-£1,500 will be offered to the applicant of proved ability, possessing initiative and drive. Pension and bonus schemes in operation. Full particulars to:

BOX V.1197, "THE CONTRACT JOURNAL."

**TAKER-OFF REQUIRED** by national contractors in their West Middlesex office. He will be required to assist Chief Estimator in connection with lump-sum tenders, including housing. This is a permanent and progressive appointment with scope for right man. Write Box V.1223, "The Contract Journal."

**PRESTRESSED CONCRETE SUPERVISOR WANTED** by well-established company for works on western outskirts of London. Applicant must have wide experience of various systems and be able to deal with all aspects of labour utilisation, production and quality control. The post is pensionable and offers excellent prospects to the right man. Existing staff have been notified of the vacancy. Please write, giving in confidence, full details of experience, age and salary required, to Box V.1204, "The Contract Journal."

**LAND SURVEYOR or JUNIOR CIVIL ENGINEER.** A vacancy has occurred for either a Land Surveyor, preferably used to high-transmission line survey, or a Junior Civil Engineer with extensive experience in survey work. Interesting work both at home and overseas; overseas contracts of short duration only. Excellent salary to right applicant. Please write, giving details of experience, etc., to: BRITISH ROPEWAY ENGINEERING CO., LTD., Plantation House, Mincing Lane, London, E.C.3.

## APPOINTMENTS VACANT

**EXPERIENCED, qualified ENGINEER/AGENT** to take full site responsibility of £1m. prestressed concrete structure. Salary commensurate with responsibility. Progressive position with growing organisation. Full particulars to Box V.1222, "The Contract Journal."

**FIRM** of leading civil engineering contractors REQUIRE COMPETENT MAN to manage the central stores department in their plan, depot near London. State experience and salary required to Box V.1255, "The Contract Journal."

**GEORGE WIMPEY AND CO., LTD.** REQUIRE CIVIL ENGINEERING FOREMEN who are familiar with ground works to building sites; also men experienced in roads and sewers, and heavy civil engineering works. Willing to travel in the U.K. Good remuneration offered to the right men. Write, stating age and experience, to the Establishment Officer, 27 Hammer-smith Grove, London, W.6. (Ref. 884G.)

## BUILDING MANAGER

**WM. TOWNSON AND SONS, LTD.** REQUIRE a MANAGER to take charge of their main building activities in the North of England. The successful applicant, who will be aged between 45 and 55, will have had a wide variety of building experience, including multi-storey flats, houses, schools, hospitals, industrial work and some civil engineering work. He should also be able to use the services of a planning department and have acquaintance with modern arrangement techniques in the building industry. The commencing salary will be in the range of £1,500-£1,750, and there will be further prospects of advancement for the right man. There is a pension and life assurance scheme, and a company car will be provided. Applications, stating education, age and experience, and marking the envelope BM/2, should be sent, in confidence, to:

The Secretary,  
WM. TOWNSON AND SONS, LTD.,  
Higher Swan Lane, Bolton.

**SITE ENGINEER REQUIRED** by small contractor. Able to set-out and control road and sewer works. Excellent prospects to energetic young man. Car provided. Write Box V.1225, "The Contract Journal."

**OFFICE MANAGER REQUIRED** by small contractor. Capable of handling wages, accounts, etc., for various sites. Write Box V.1226, "The Contract Journal."

**TECHNICAL REPRESENTATIVE REQUIRED** for civil engineering contracts, specialising in tunnelling, grouting and other power applications. Existing connection with civil engineering consultants, local authorities, contractors, etc., in Lancashire and West Midlands area. Four-figure salary, expenses and car. AEROCEM (SCOTLAND), LTD., 21 Blythswood Square, Glasgow, C.2.

**SALES ENGINEER.** Experienced Sales Engineer REQUIRED to sell the Bristol range of earth-moving equipment in central England. A thorough knowledge of and active connection with the trade are essential. Superannuation scheme. Salary and commission. Car provided. Write, giving full information of previous experience and qualifications, etc., to H. A. SAUNDERS, LTD., 14-20 The Butts, Worcester.

## ENGINEER/ESTIMATOR

REQUIRED for large building and civil engineering contractors. Several years' experience of site work essential, combined with considerable enthusiasm for estimating and tender stage planning. Age 30 to 40, plus parts A and B of A.M.I.C.E. or equivalent desirable. The post is permanent, pensionable, and offers considerable opportunity to the right applicant. Own staff notified. Write, giving full details of qualifications and experience, and quoting Ref. EE915, to:

BOX V.1176, "THE CONTRACT JOURNAL."

**THE NORWEST CONSTRUCTION CO., LTD.**, Ruthven Road, Liverpool, 21, invite applications from AGENTS, SUB-AGENTS, FOREMEN-AGENTS, fully experienced in Post Office duct laying and manhole building contracts. The positions are permanent and progressive. Good salary and bonus, and a superannuation scheme in operation. Successful applicants required to travel to different parts throughout the U.K. Apply in writing, with full details of previous experience.

**SENIOR and JUNIOR SITE ENGINEERS** are REQUIRED for contracts in England and South Wales. These are permanent appointments with good prospects. Bonus and superannuation schemes in operation. Applications, which will be dealt with in strict confidence, must give details of age, experience, qualifications, and salary required, and should be addressed to: Personnel Officer, TARMAC CIVIL ENGINEERING, LTD., Ettingshall, Wolverhampton.

**DIAMOND DRILLER REQUIRED** for large opencast mine in Ghana. Salary according to experience and qualifications. Liberal life and accident insurances, kit and bungalow allowances. Free passages for self and wife each way (no children allowed on the Mine), free housing, lighting, and medical attendance. Three months' leave in U.K. on full pay after completion of 12 months' tour. Engagement subject to satisfactory medical examination. Write full particulars to Box "C.Z." c/o J. W. Vickers and Co., Ltd., 7/8 Great Winchester Street, London, E.C.2.

## NUCLEAR CIVIL CONSTRUCTORS

REQUIRE the services of GENERAL and SECTION FOREMEN at their contract for the construction of Trawsfynydd Nuclear Power Station, North Wales. Applications, with full details of previous experience and full personal details, should be addressed to:

Mr. T. J. Winter, Business Manager,  
NUCLEAR CIVIL CONSTRUCTORS,  
Nuclear Power Station, Trawsfynydd, Merionethshire.

**CIVIL ENGINEERS REQUIRED** by contractors for reinforced concrete road construction in Midlands. Permanent positions for satisfactory applicants, with participation in superannuation scheme after trial period. Reply, with details of previous employment and state available, to Box V.1241, "The Contract Journal."

**ENGINEER**, capable of pricing sub-contract work and carrying through to final certificate. Possibility of advancement to position of general manager of department and directorship. Must be capable of supervising contracts. SMITHS PLANT HIRE AND CONTRACTORS, LTD., Southam Court, 98 Prestbury Road, Cheltenham.

## APPOINTMENTS VACANT

**VACANCIES** occur for GENERAL FOREMEN. Must be fully conversant with the construction of schools, public buildings and other large contracts, especially concrete structures involving reinforcing and shuttering. Theoretical qualifications an advantage. Commencing salary £750 per annum. Building company operates in the south-east part of Warwickshire and adjoining counties. Application forms available from Box V.1209, "The Contract Journal."

**THE 143 PLANT REGT. ROYAL ENGINEERS (T.A.)** has a vacancy for a JUNIOR T.A. OFFICER with qualifications and experience of engineer plant. Applicants with or without previous service considered. Apply, with full details, to Adjutant, T.A. Centre, Gordon House, Sutton Road, Walsall, Walsall 5644.

## CONSTRUCTION WORK IN TURKEY

Vacancies on single status exist for:

(1) CONSTRUCTION EQUIPMENT

GENERAL FOREMAN

Capable of controlling, allocating and maintaining a large fleet of American makes of constructional equipment, including heavy mobile cranes, tractors, compressors, welding sets, concrete plant, etc. Only applicants having held similar responsible positions need apply. Job situated on Mediterranean coast. Sterling salary. Accommodation and messing provided with local currency, living allowance and kit allowance. Duration of contract 18 to 24 months.

(2) MALE CONFIDENTIAL SECRETARY/STENO-

GRAPHER and PERSONAL ASSISTANT to MANAGER

School, Camberwell, London, S.W.20. Good experience and knowledge of written and spoken Turkish and French languages. Conditions as above.

Written applications only, stating age and full details, to:

Oil Construction Manager,  
FOSTER WHEELER, LTD.,  
3 Isworth Place, London, S.W.3.

**TAYLOR WOODROW CONSTRUCTION, LTD.** REQUIRE an experienced and reliable ASSISTANT in the Camp Welfare Office on the Hinkley Point Atomic Power Station Contract, near Bridgwater, Somerset. This is a staff appointment. Camp accommodation available. Write to the Agent.

**AGENT REQUIRED** for medium-sized building contract in Lancashire area. Good prospects for first-class man. Reply, stating age, experience and salary required, to M. J. GREEN (CONTRACTS), LTD., C.E. Dept. Harewood House, London Road, North Cheam, Surrey.

**ARTHUR KENYON, TAUTE AND PARTNERS** REQUIRE competent CLERK OF WORKS to supervise science block extension to Wilson's Grammar School, Camberwell, London, S.W.20. Good experience essential. Salary up to £20 a week, depending on ability. Apply in writing, with full particulars and references, to 140 Park Lane, London, W.1.

## BRITISH ROAD TAR ASSOCIATION

**APPOINTMENT OF FULL - TIME DIRECTOR.** The Association invites applications for the above position, which is to be made in the near future. The Director must be capable of maintaining high-level liaison with Government departments and other interested authorities, and of directing and controlling the activities of the Association. Experience in road work and in dealing with Government departments is essential, and a civil engineering qualification is desirable. Age between 45 and 55. Salary to be settled by negotiation by the B.R.T.A. Organisation concerned with research, development, road experiments, technical service and propaganda on the use of tar for the construction and maintenance of roads and airfields. Its membership comprises the nationalised Gas Industry, the National Coal Board, and private enterprise as represented by coke oven firms and tar distillers. Closing date, MARCH 30th. Inquiries and applications to:

The Chairman,  
BRITISH ROAD TAR ASSOCIATION,  
9 Harley Street, London, W.1.

**PRECAST CONCRETE: ASSISTANT MANAGER.** About 30 years of age, REQUIRED for organising production at our Trusham Works, Devon. Experience essential in the manufacture of general precast products, reconstructed stone and heavy R.C. units. A contributory pension scheme is available. Applications to General Manager, TEIGN VALLEY CONCRETE CO., LTD., Trusham, Newton Abbot, Devon.

**SITE ENGINEERS and GENERAL FOREMEN.** Experienced in roads, sewers and reinforced concrete REQUIRED for Gloucester and Oxford areas. Permanent appointments with an expanding company. Good prospects for advancement. Write, in first instance, full particulars, including salary required, in confidence, to WILLIAM T. NICHOLLS, LTD., St. Pauls Road, Gloucester.

**ASSISTANT CIVIL ENGINEER REQUIRED** for site work in Havering. Write in confidence. Apply, stating qualifications and experience, to MARPLES, RIDGWAY AND PARTNERS, LTD., 2 Lygon Place, Victoria, S.W.1.

## RUSH AND TOMPKINS, LTD.

REQUIRE due to expansion:  
ESTIMATORS  
CONTRACT MANAGERS and AGENTS  
SURVEYORS and ASSISTANT SURVEYORS  
GENERAL FOREMEN  
Apply, in writing, with details of previous experience. All replies will be treated in strict confidence.

Dept. 3,  
RUSH AND TOMPKINS, LTD.,  
26 Victoria Street, S.W.1.

**ELECTRICAL INSTALLATION SUPERINTENDENT** REQUIRED for the installation of electrical services on an oil-loading jetty in the Middle East. Must be capable of working from drawings and specifications and must have a practical experience of this type of work. Good pay and allowances. All found. Short contract—Write, in confidence, to RAYMOND INTERNATIONAL, 93 Shaftesbury Avenue, London, W.1. REGENT 7536.

**SITE AGENTS REQUIRED** for school and telephone exchange building contracts North Wales and Cheshire. Applicants please do not reply unless of high-class economic worth. Advise us to contracts manager in due course. Pension scheme. State age, salary required, and send fullest details of experience, to Box V.1229, "The Contract Journal."

**JUNIOR SURVEYOR REQUIRED**, based on contractors' office, Essex area, for site measuring experience. Good prospects. Pension scheme. Full details to Box V.1220, "The Contract Journal."



## APPOINTMENTS VACANT

**CLERK OF WORKS REQUIRED** on building projects, London area, Midlands and Scotland. Experience of reinforced concrete essential.—Write, giving particulars of experience and salary required, to Box V.1231, "The Contract Journal."

**CHARTERED CIVIL ENGINEER REQUIRED** as MANAGER of expanding department in a contracting company with international interests. Previous experience in office administration and estimating for, and supervision of, civil engineering contracts essential. This is an opportunity for a well-trained man, preferably a university graduate, to build up a worthwhile permanent career in an established company based in the provinces, with possibilities of a directorship in due course. A substantial salary, bonus on results, expenses, car allowance and a pension scheme will be offered, along with a company house at moderate rental, and removal expenses. Candidates for this post are invited to apply in own handwriting (in confidence) for further particulars, also submitting a précis of their education, experience, availability, marital status and basic salary requirement, pending possible further inquiry from, and interview with, the advertisers.—Write Box V.1232, "The Contract Journal."

**SITE ENGINEERS REQUIRED** for long contract in the Colchester area.—Apply General Manager, FARRANS, LTD., 39 Upper Brook Street, London, W.1. Tel.: GROsvenor 4986.

**CARPENTERS AND CARPENTER CHARGEHAND REQUIRED** for the construction of a new house, B&S, subsistence.—Apply JOHN HOWARD AND CO. LTD., Tittsworth Reservoir, Leek, Staffs. Telephone Blackshaw 312.

**LIVE PLANT SALES REPRESENTATIVE REQUIRED** for South Coast company, preferably man who has experience of smaller earthmoving equipment, hydraulic excavators, shovels, etc.—Write, giving details of past experience, two references and salary required, Box V.1227, "The Contract Journal."

**A. MONK AND CO. LTD.**, Warrington Lancs., require **SITE ENGINEERS** for major projects in and around the north-western, north-eastern and south-west Midlands areas. Permanent and progressive posts. Superannuation scheme in operation.—Applications in confidence, stating age, full details of experience and qualifications, etc.—Please reply to Mr. H. Hudson, Personnel Department, A. MONK AND CO. LTD., Padgate, Warrington, Lancs.

**ESSO PETROLEUM CO. LTD.** have a vacancy for a **BITUMEN SALES REPRESENTATIVE**, aged 25 to 30 years. Applicants should have a good degree of education and a knowledge of bituminous road construction. Additional engineering experience would be an advantage. Good salary and pension scheme. Applicants should apply in writing, giving details of age, qualifications, experience and salary required, to the Employee Relations Manager, Esso Petroleum Co., Ltd., Esso Hall, Little Aston, Sutton Coldfield, Warwickshire.

**DOZER DRIVER**, Southern England. Medium and small machines. Must be fully experienced in all branches.—Write details of past experience, recent references and salary required, to Box V.1228, "The Contract Journal."

**JUNIOR BUILDING SURVEYOR REQUIRED** for expanding builders' office in Watford, to assist at estimating, accounts, etc.—Apply, in writing, stating age and giving details of experience and salary required, to Box V.1230, "The Contract Journal."

**SENIOR ESTIMATOR REQUIRED** for tendering on civil engineering work of all types. Previous experience essential. Bonus and pension schemes. Fine prospects. Permanent position.—Apply: ROBERT MCGREGORS AND SONS, LTD., Midlands Office, Turnoaks Lane, Chesham.

**REQUIRED** for building and civil engineering contractors' offices. **EXPERIENCED ENGINEERS** with wide experience to enable him to preplan and programme contracts in all aspects. Good opportunity for right man. Pension scheme operating.—Full details to Box V.1229, "The Contract Journal."

**SURVEYOR REQUIRED** for building and civil engineering contractors. S.E. Essex, to measure for interim valuations, agree sub-contractors and settle final accounts. Must be fully experienced. Pension scheme.—Full details and approx. salary required to Box V.1219, "The Contract Journal."

For Advertisements received too late for classification see page 845

## APPOINTMENTS WANTED

**CIVIL ENGINEER**, age 33, wishing to settle. SEEKS POSITION with county contractor. Write Box W.1250, "The Contract Journal."

**BUILDING AND CIVIL ENGINEERING PLANT AND TRANSPORT MANAGER** experienced in control of mechanical plant, supervision of site servicing, operators, workshop repairs and stores. SEEKS POSITION OF RESPONSIBILITY. Keen costs man. Resident in S.W. London area. Write Box W.1259, "The Contract Journal."

**FOREMAN/AGENT**, roads, sewers, etc., use level. London or Greater. Accustomed sole control. Write Box W.1161, "The Contract Journal."

**AGENT**, recently engaged in main drainage and roadworks, sewers, etc., mobile, own transport. SEEKS NEW POST. Experienced in estimating, measurement, final accounts, setting out, etc. Write Box W.1267, "The Contract Journal."

**ENGINEER**, comprehensive experience of contractors' plant (C.E. Plant Manager), all equipment, for unusual contracts, quarrying, heavy machinery, surveying, steel erection, etc., etc. SEEKS RESPONSIBLE POST. Age 45. Public school and well known interview at top level. First-class references. Write Box W.1260, "The Contract Journal."

## WORK REQUIRED

**MOTOR BOAT OWNERS REQUIRE CONSTRUCTIONAL WORK, ATTENDANCE, PERSONNEL, GOODS, TOWAGE**, etc. Craft and labour supplied.—Apply: THOMAS BROS., 62 Sussex Road, East Ham, London, E.6. Telephone: GRA. 6697/3151.

**SITE CLEARANCE, BULK EXCAVATION.** JAMES AND CO. LTD., Trading Estate, Slough. Telephone: Slough 20361—Ext. 4.

**SAM BOOTH, LTD.**, Perrymount Chambers, Haywards Heath, Sussex. Tel.: Haywards Heath 1126 and 1258. SUB-CONTRACT or HIRE: D9s, with Bulldozer and Caterpillar 463 Scrapers.

**UPROOTING—TREES, STUMPS, HEDGES**, etc. We can have the most experienced and all modern equipment.—T. GRAVESON, LTD., Warton, Carnforth, Lancs. Tel.: Carnforth 381 and 382.

## WORK REQUIRED

**EARTHMOVING, EXCAVATION, CONTRACT or HIRE.** Bulldozers, Scrapers, Traxcavators, Trenchers, etc.—Phone: CHISWICK 8511/2, Maldstone 7284/5. **CHISWICK HIRE (CHISWICK)**, LTD., 300 Chiswick High Road, W.4.

**EXCAVATION SUB-CONTRACTS.** Technical staff available to analyse, programme and price complex projects. Particular attention given to finish and compaction. D9, D8, T018 and T014 Scrapers, Excavators, Loading Shovels and Lorries available with competent and imaginative supervision for execution of work.—DICK HAMPTON, Broadview Farm, Blacknest, Alton, Hants. Tel.: Bentley 2241.

**SITE CLEARANCE AND BULK EARTHMOVING** with latest machines. Playing Fields Construction and all allied works. For your contracts in the Southern Counties, consult: G. S. DANIELS, 387 Winchester Rd., Southampton. Southampton 68956.

**GENERAL SITE CLEARANCE** with specialised equipment. Awkward trees and roots removed. Expertise available. Also Seeding, Turfing and all other branches of landscape gardening undertaken by: KINGSWAY NURSERIES, LTD., of Ewell, Surrey. Telephone: Ewell 1726.

**SPECIALISED EXPLOSIVES SERVICES.** U.K. and OVERSEAS MOBILE UNITS coverage on ex-service strong points, sea walls and dangerous structures, etc.—124 Old Shoreham Road, Southwick, Sussex. Tel.: Southwick 3791 or Shoreham 4193.

**SUB-CONTRACTS WANTED.** Labour only. Foundations, concreting, drainage, gas and water mains G.P.O. Road, etc.—TOLAN AND HARRIS, 27 Richmond Mount, Headingley, 7. Tel.: Leeds 58316.

**FOR HIRE IN MIDLANDS**, new Blaw Knox PF90 PAVING MACHINES, complete with experienced operators (and gang) if required. Sub-contract work or price per ton for material laid (Macadam, Asphalt, Wetmix, Leammix Concrete, etc.).—For full details, apply: HENRIETTA ROAD CONSTRUCTIONS, LTD., 14/26 Hatfield House, East Street, Farnham, Surrey. Tel.: Farnham 4049 day and night.

**BULK EARTHMOVING**, direct contract or sub-contract. ALSO BULDOZERS and SCRAPERS for HIRE.—FRANK R. WALPOLE, LTD., 126 Wing Road, Leighton Buzzard, Beds. Leighton Buzzard 3351.

**FOR HIRE OR SUB-CONTRACTS.** TD18s and BD26 BULDOZERS and SCRAPERS, TIMBER WINCH, Caterpillar TRAX CAVATOR, 1½ cu. yd. Bucket. Competitive rates. Experienced operators. Go anywhere.—COTSWOLD HAULAGE, Tanfield House, East Street, Farnham, Surrey. Tel.: Farnham 4049 day and night.

**IF GRADING, SEEDING, TURFING AND PLANTING** form part of your CONTRACT, we will be pleased to quote you.—HOLDRUP, 139 Bells Hill, Barnet. Telephone 911.

**WANTED, HIRE OR CONTRACT WORK** for modern fleet of DW21s, D9s and D8s. Apply: BRODDICK LTD RY, LTD., 421 Nottingham Road, Ilkeston, Derby. Tel.: Ilkeston 4381/2.

**IF TREES, ROOTS OR UNDERGROWTH** feature in your contract, we would be pleased to quote for their ECONOMIC DISPOSAL. BAGSHOT SAGMOUTH LTD., 32 London Road, Camberley, Surrey. Telephone 14.

**ALLEN OXFORD GRADERS** for HIRE. GRASSPHALTE, LTD., Hampton Hill, Middlesex. Telephone: Molesley 4343.

**BULK EXCAVATIONS**, any quantity quoted for. Own plant and lorries. COFF AND SON (EXCAVATIONS), LTD., Buckhurst Hill, Chesham, Bucks. Tel.: Ascot 1026/7/8.

**WANTED, EXCAVATION, SITE CLEARANCE AND DEMOLITION WORK.** R. BARKER (PECKHAM), LTD., New Cross 3337.

**BULK EXCAVATIONS AND SITE WORKS** undertaken. DIRECT or on SUB-CONTRACT basis. Quotations given for large or small contracts anywhere.—S. AND L. BULL BROS., LTD., 126A High Street, Winchester. Winchester 2264.

**ERECTION AND DISMANTLING.** Structural Steelwork and all types of Prefabricated Components. Speedy and efficient service.—ERECTORS, 80 Bulwell Crescent, Cheshub, Herts. Waltham Cross 22564.

**BLASTING BY EXPERTS** on any project in the United Kingdom.—Consult CLARKE DEMOLITION AND CONSTRUCTION CO., LTD., Waldringfield, Ipswich, Suffolk. Telephone: Waldringfield 663.

**SOILING, SEEDING AND TURFING.** Site Clearance, Excavation and Levelling Work undertaken in any part of the U.K. at competitive prices.—GILLIAM, Purley, Surrey. Uplands 9222

**BULK EARTHMOVING, OVERBURDEN STRIPPING, EXCAVATIONS** for roads, airfields, etc., with large fleet of Caterpillar D8 and D7 Tractors. Keenest prices for work anywhere in the country. COLOURS PLANT HIRE LTD, CO. LTD, Barkby Road, Leicester. Tel.: Leicester 66631 (4 lines).

**NORTHERN REPRESENTATIVE:** 91 Shaw Road South, Shaw Heath, Stockport. Telephone: Stockport 3082.

**EARTHMOVING** in south-west carried out by modern fleet of machines—hire or contract. Traxcavators, motor scrapers, bulldozers, excavators and mobile cranes.—GRANGE PLANT, LTD., Honiton, Devon. Telephone: Broadhembury 330-355.

**SITE CLEARANCE, EXCAVATION, MOBILE HAULAGE, LTD.** 230 Tottenham Court Rd., London, W.1. Lan. 7833-5.

**TARMACADAM AND TARSPOURING** by specialists. Private Drives, Roads, Forecourts, Car Parks, etc. Resurfaced or Reconstructed.—STANLEY LUCAS (SLOUGH), LTD., Slough 21279.

## DIRECTORSHIP

**ADVERTISER**, with capital wishes to MEET an experienced man with a view to forming a company. Preference will be given to one having sound contacts with cable contractors and electrical authorities. DIRECTORSHIP with salary of £2,000 per annum to commence, plus share of profits. This is a genuine offer for right type of man. All correspondence treated with strict confidence. Write Box X.1185, "The Contract Journal."

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**DIVERS IMMEDIATELY AVAILABLE.** Welding, cutting, construction, etc., and all work. UNDER WATER WELDERS AND REPAIRERS, LTD. Cardiff. Tel. 29631. (After hours: Penarth 58131.)

**DIVING WORK REQUIRED**, all classes, competent divers.—A. J. PARSOLE, Diving Contractor, 14 Haig Avenue, Brighton, 6. Telephone 61228.

## AGENCIES

**AGENT**, based on Birmingham, existing connection large industrial groups, architects and corporations, offers manufacturers an ACCOMMODATION ADDRESS, sales representation on commission only basis if desired. Write Box X.1183, "The Contract Journal."

## PARTNERSHIPS

**ENERGETIC WORKING PERSON** with capital offered HALF INTEREST in civil engineering concern, Manchester area, £3,000. Write Box X.1152, "The Contract Journal."

## BUSINESSES—SALE OR WANTED

**BUILDING AND CIVIL ENGINEERING** CONTRACTORS, privately owned, situated north side of Birmingham. Three years' contracts in hand amounting to £250,000 plus. Excellent staff. Principals only please. £50,000. Write Box X.1206, "The Contract Journal."

**MIDLANDS FIRM** of plant hire contractors wish to AMALGAMATE with civil engineering contractors in order to undertake road construction schemes, reservoirs, dams, etc. Large fleet of first-class earthmovers, etc., mostly large tractors, or would SELL OUTRIGHT with present contracts. Write Box X.1256, "The Contract Journal."

**PLANT HIRE, CIVIL ENGINEERING or BUILDING COMPANY** REQUIRED with substantial tax losses. Write Box X.1233, "The Contract Journal."

**AN** expanding company wish to PURCHASE a small PLANT HIRE FIRM operating tractors, excavators, etc., in the Midlands.—Inquiries in the first instance should be addressed to GEORGE AND GEORGE, 123 Victoria Street, Westminster, London, S.W.1.

**WANTED, PLANT HIRE BUSINESS**, including reasonable-sized depot, Birmingham-County area.—Full particulars, in confidence, to Box X.1268, "The Contract Journal."

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**CIVIL ENGINEERING SERVICES** available on fee basis to contractors not desirous of maintaining permanent engineering staff. Setting out, surveys, preparation of monthly certificates, final accounts, claims, estimates, etc. Own transport. Write Box X.9962, "The Contract Journal," or phone ADDISCOMBE 3712.

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**CARR'S QUIPS—ESTIMATES.** If your staff are doing all they are able, it's no use leaving another job on the table.—Send it to R. J. CARR, Britain's Top Free-lance Estimator, 42 Coombe Road, New Malden, Surrey. Tel.: Malden 8640.

## HORTICULTURAL

**TOP SOIL.** 200,000 cubic yards available, delivered in large and small quantities. Soil supplied ex site in approved cases.—LATHAM AND CO. (CONTRACTORS), LTD., Westwood House, Gifford Rd., Lightwater, Surrey. Bagshot 2037 and 2400.

**A KEEN QUOTATION** for your TURFING, SEEDING and HEDGING CONTRACTS: London and Home Counties.—R. J. ENSTONE & SON, LTD., Head Office: 34 Alma Rd., St. Albans. (St. Albans 55528).

**TURFING—SEEDING—HEDGING.** Quotations for all branches of landscape work, anywhere in the U.K. C.E. contracts a speciality. WEBSTER BROS., Horsforth, Leeds. Horsforth 2364.

**BUY THE GENUINE CHILTERN TURF.** Instructions for laying supplied free. Guaranteed satisfactory results. Turves 3ft. x 1ft. precision machine cut, weed treated, close mown, £3 per 100 delivered. Let us quote you for leveling and laying with guaranteed Chiltern Turf or Grass Seed. Building ground laid-out for contractors. Orders taken weekdays 9-5.—CHILTERN CONTRACTORS, Cryers Hill, High Wycombe, Bucks. Tel.: Holmer Green 3127.

**TURVES.** Machine-cut 3ft. x 1ft. close mown, weed-treated, 60/- per 100. Keen trade rates. We would be pleased to quote for your evening and laying.—E. R. RANCE, LTD., 24 Sheepshead Lane, Watford. Telephone: Garston 2725.

**MASSEY-FERGUSON 65 TRACTORS** for HIRE. Also comprehensive range of ATTACHMENTS, including Tipping Trailers, Loaders, Rotavators, and all Land Cultivation implements. Turf-cutting Machines, etc. C.E. contractors catered for.—RINGWAY CONTRACTORS, LTD., Horsforth, near Leeds. Telephone: Horsforth 4805.

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**CHESHIRE TURF** for SALE, ex existing playing field, close mown, machine-cut, ready to lay, some suitable for cricket squares, etc., 2/- per sq. yd., delivered 10 miles. Reduction for quantities.—FLOODS, Mancot, Queensferry, near Chester. Tel.: Hawarden 2300.

**YOUR THORNY PROBLEMS SOLVED.** We can offer QUICKTHORN at a very competitive price. Write for quote to: GARDEN J. COX (GARDENS), LTD., Stoke Poges, Slough.

**QUICKS, EXTRA QUALITY, fibrous rooted:** 12-18in., 16/-; 145/-; 18-24in., 24/-; 200/-; 24-30in., 28/-; 270/-; extra heavy: 30-40in., 35/-; 330/-; special transplanted and cut back: 18-24in., 24-36in., 40/-; 360/-; OVAL LEAF PRIVET: 12-18in., 22/-; 215/-; 18-24in., 28/-; 275/-; special transplanted bushy: 18-24in., 35/-; 340/-; 24-30in., 50/-; 470/-; 30-36in., 70/-; 670/-; BECH 10-16in., 20/- per 100; transplanted 3-year: 18-24in., 50/-; 480/-; 30-36in., 75/-; 700/-; LONICERA NITIDA: transplanted: 18-24in., 45/-; 420/-; 24-30in., 50/-; 450/-; all above 100 lots per 100 and 1,000. CUPRESSUS LAWSONIANA: 12-24in., 130/- per 100. LAURELS: transplanted: 12-18in., 18/- per doz.; 18-24in., 24/- per doz. All carriage paid for cash with order.—GARDEN BEAUTY PRODUCTS, Wickford, Essex. Telephone 2152.

**ROTARY CULTIVATORS** available for HIRE or CONTRACT WORK. Grading, Levelling, Earthmoving undertaken.—JAMES COOPER, LTD., 28 Kensington Church Street, London, W.8. Western 3412.



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&  
**VALUATIONS**  
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**SALES BY TENDER****BRITISH TRANSPORT WATERWAYS.**

For SALE: SUCTION DREDGER WALRUS. Details: 8in. Suction with Rotary Cutting Head. Fitted with Gardner 5L3 95-h.p. Engine. Length 69ft., Breadth 21ft., Moulded Depth 5ft., Minimum Draft 2ft. 6in. Suitable for use as sand and gravel extractor. Can be viewed at British Waterways Repair Yard, Northwich, Cheshire. Tel.: Northwich 4321.

TENDERS, which can be obtained from the DIVISIONAL MANAGER, North Western Division, British Waterways, Lime Street Chambers, Liverpool, 1, are to be submitted within one month of publication and forwarded in a sealed envelope to the above.

**COUNTY BOROUGH OF BOOTLE.**  
DISPOSAL OF SURPLUS MATERIALS.

Offers are invited for SURPLUS BUILDING, ROAD-MAKING and STREET LIGHTING MATERIAL, together with a quantity of SCRAP METAL, all of which may be inspected at any time during normal working hours on application to the Corporation Depot, Litherland Road, Bootle.

A Schedule giving particulars of the material on offer may be obtained from the Depot or from the Borough Surveyor, Town Hall, Bootle, 20, Lancs., to whom offers, on the prescribed form, must be sent to arrive not later than 10 a.m. on SATURDAY, 27th February, 1960.

HAROLD PARTINGTON,  
Town Clerk.

**COUNTY BOROUGH OF BURY.**  
LOADING SHOVEL.

OFFERS invited for PURCHASE of a 2HCRA Type 3, cu. yd. capacity Weatherill Hydraulic LOADING SHOVEL, which was purchased new in February, 1956. The shovel may be inspected at Fernhill Yard (Highways Department), Bury, during working hours. Offers to be made, in writing, to Borough Engineer, Town Hall, Bury, not later than 24th FEBRUARY, 1960.

EDWARD S. SMITH,  
Town Clerk.

Town Hall,  
Bury,  
10th February, 1960.

**RURAL DISTRICT COUNCIL OF DEBEN.**

The above Council invites TENDERS for the PURCHASE and REMOVAL OF ELECTRIC MOTORS, PUMPS and TANKS from the FOLLOWING SITES:—

Alderton.—2-h.p. single-phase Electric Motor, 1,000-gallon Elevated Tank, and Climax Deep Well Pump.

Great Bealings.—12-h.p. single-phase Electric Motor, 500-gallon Elevated Tank, and Twin Argosy Pump.

Eyeke.—12-h.p. Electric Motor, 700-gallon Elevated Tower and Tank, and Climax Deep Well Pump.

Ufford Park Camp.—6,000-gallon Sectional Steel Tank, elevated on 2in. Tubular Steel Scaffolding.

Tender Forms and further information may be obtained from the Engineer and Surveyor to the Council, Council Offices, Melton Hill, Woodbridge.

Sealed Tenders, endorsed "Redundant Water Tanks and Pumps," to be delivered to the undersigned by 9 a.m. on WEDNESDAY, 9th March, 1960.

The Council does not bind itself to accept the highest or any Tender.

T. D. HOCKINGS,  
Clerk of the Council.

Council Offices,  
Melton Hill,  
Woodbridge.

**LAND AND PROPERTY**

**TO LET,** large or small **FACTORY BUILDING.**  
Rings: Chesterfield 2638.

**BERMONDSEY S.E.G.**—Ideally suitable as a contractors' plant, timber or scrap merchants' depot, valuable INDUSTRIAL LAND of about 4½ acres with Single-storey Buildings of about 11,600 sq. ft., plus Shedding. LEASE for SALE.—Further particulars of: **HENRY BUTCHER AND CO., 73 Chancery Lane, W.C.2.** Telephone: HOLborn 8411.

**ACCOMMODATION**

**CARAVANS TO RENT** for men with families. Rent £7 to £17 per month. Delivery anywhere.

**LANDSMAN'S SERVICES.**  
Buckden, Huntingdon. Telephone: Buckden 287.

**ACCOMMODATE YOUR EMPLOYEES** in a cosy 4-berth CARAVAN, fully equipped with heating, lighting, cooking and washing facilities. Hire rates from 50/- per week for four persons. Caravans delivered anywhere. — **NORTHERN CARAVAN DISTRIBUTORS,** Handforth, Chesh. Tel.: Mercury 4255/6.

**FOR SALE, CONTRACTORS' CAMP** for 100 men in portable Terraplin Units, including staff accommodation, kitchen, dining hall, recreation room, ablutions, etc., with oil-fired boiler house and all equipment and furnishings. Camp and equipment cost £23,000 when set up new two years ago. Camp presently erected in Scotland and may be inspected by appointment. — **Write Box 888, Keith and Co., 137 Princes Street, Edinburgh,** for further particulars.

**SALES BY AUCTION**

**WAR OFFICE VEHICLE SALE** at MINISTRY OF AVIATION DEPOT, RUDDINGTON, Notts, on the 15th-18th MARCH, 1960, inclusive.—See advertisement under Plant Classification.

**HETHEL AIRFIELD, NORFOLK.**  
Highly Important Two-day AUCTION SALE of ALL TYPES CONTRACTORS' PLANT, VEHICLES, TRAILERS, AGRICULTURAL MACHINERY, BUILDING MATERIALS AND GENERAL EQUIPMENT on MONDAY AND TUESDAY, MARCH 7th and 8th, 1960, by

**W. S. HALL AND PALMER.**  
Catalogues from Auctioneers' Offices: Market Place, Wymondham (Wymondham 3031/2), Norfolk.

**SHIRLAW, ALLAN AND CO., AUCTIONEERS, HAMILTON.**  
SALE OF CIVIL ENGINEERING AND BUILDING CONTRACTORS' PLANT AND MACHINERY, PLANT SPARES, etc., including

Two Vickers V.180 Diesel Crawler Tractors, each with Anglo-Dozer and P.C.U.; David Brown Industrial Tractor on pneumatics with 10-ton Six Chassis 12yd. Diesel and Petrol-driven Hi-Lift Loading Shovels; Two NCK304 Excavator Face Shovel Equipments; Blaw Knox Cement Blower Unit, with 7-ton Ground Hopper; Four Road Machines and Blaw Knox Mobile Weight batthers, on pneumatics; Six Darham 21½-ton Cement Hoppers; Six Rex 14/10 Model Portable Diesel-driven Discharge Concrete Mixers; Le Tourneau Double Drum Sheepsfoot Roller; Five Wickham 25cw Portable Diesel-driven Pole Hoist Winches, with Platforms; Two Dyson 4½-ton Four-wheel Low-loading Trailers; Three John Deere Powermowers; Nultico 6in. Model 81 Petrol-driven Surface Planing Machine (almost new); Metalclad Motorised Hollow Chisel Mortising Machine (slightly used); Lister 30in. Petrol-driven Chain Cross-cut Saw; new Petter, Villiers, Nova and Ford V8 Engine Spares; Lister Pan Mill, Rex 14/10, Winget and Lees Concrete Mixer Spares; Ford 10-h.p. Delivery Van Spares; Vickers V180 Tractor and Chassis Shovel Spares; etc.

AT GREENFIELD PLANT DEPOT, BURNBANK, HAMILTON, ON THURSDAY, 18th MARCH, 1960, At Eleven O'clock Prompt.

**SHIRLAW, ALLAN AND CO., AUCTIONEERS, HAMILTON.**  
have received Instructions from Scottish Special Housing Association Ltd., 15 Palmerston Place, Edinburgh, to sell, by Auction, as above, On view day prior to Sale. Catalogues from Auctioneers.

**FENGATE, PETERBOROUGH, NORTHAMPTONSHIRE.**

**FOX AND VERGETTE** will sell by AUCTION on FRIDAY, 26th FEBRUARY, 1960, CIVIL ENGINEERING PLANT AND EQUIPMENT, VEHICLES, WORKSHOP MACHINERY AND SPARES

including: Henderson 10-ton Twin Cableways; 15 Excavators (Lima 802, 10RB, 17RB, 19RB, Smith, N.C.K. and Priestman); Two R.R. Mobile Cranes; Five 5-ton Coles Cranes (Thornycroft, B.E.C.); Two Fordson Tractors (D6, D4, BTD6, TD9, Fowler, County Crawler, Ford Half-track); Caterpillar Tractor; Two Howard Trenchers; Muir-Hill and Chasidie Shovels; 10 Aveling-Barford and Six Drayton Dumpers; Two 9 cu. yd. Euclid Rear Dump Trucks; 19 Mixers (12S, 10S, 10/7, 14/10); Nine Compressors (Static, Mobile, 2/6-Tool); 13 Lorries (Bedford, Dodge, Ford, Tip, Foden, Ford Tanker, Bedford, etc.); Four Vans (Ford and Lloyd); Climax Fork Lift and Lister Auto Truck; Six Godfrey Blowers, with Electric Motors; Miscellaneous Spares and Workshop Machinery, including Lathes, Bench Drills, Milling and Grinding Machines. Sale starts at 11 a.m. Catalogues available from **FOX AND VERGETTE, 16 Priestgate, Peterborough** (Tel. 4261/2).

By Order of Manchester Corporation Waterworks Department and Edmund Nuttall, Sons and Co (London), Ltd.

**HAWESWATER CONTRACT.**

**EDWARD RUSHTON, SON AND KENYON** will sell by AUCTION at PLANT DEPOT, LONGPOOL, KENDAL on WEDNESDAY and THURSDAY, 2nd and 3rd MARCH, 1960, starting at 11 a.m. prompt each day.

**CONTRACTORS' PLANT**

including: EXCAVATORS: Three 33RB, One 32RB, One 20RB, Three 19RB and One 17RB, c/w Dragline Equipment and Spare Excavators; Westwood 12yd. Grab; TRACTORS: Two Vickers V180 with Anglo-Dozer, International BTD6 with Bulldozer Equipment, Fowler Challenger with Anglo-Dozer; Fiat Model 55L with Anglo-Dozer; Wallis and Stevens 8-ton Diesel Roller; Blaw Knox 3-Tine Roller; 8-ton Box 8yd. Scrapec; Vee Type Snow Plough; COMPRESSORS: Two C.P.T. P08-500 Portable, Seven C.P.T. SP04-210 Ditto, Three Alvey and McLellan 5-ton Type 23B Stationary, Two I.R. Stationary, Five Winches; MIXERS: Five 21¼ Winget, Non-tilt Rotary Drum, Two Stoithert and Pitt 14/10 Ditto, 10/7 Ditto, Winget 5½/2 Ditto; Two 30-ton Portallises; Two 35-ton Batchmatic Auto Batching Plants; Two 3M3 concrete auto Mobile Weighbatches; Three C.P.O.A.C. 14yd. and 12yd. Concrete Placers; Three 13½ cu. ft. Grout Pans; PUMPS: Nine 4in. Centrifugal with Electric Motor drive, Eight Pegson 3in. Ditto with Diesel Engine drive, Eight C.P.T. No. 7 Sludge Pumps, Two Mucky Pumps, etc.; Two Petrol Pumps; Storage Tanks; VEHICLES: 18 Muir-Hill 10B 3yd. Diesel Dumpers, Morris Minor Traveller, Five Land-Rovers, Eight Fordson 5-ton L.W.B. Dropside Lorries, Four Fordson S.W.B. Tipper, Six Logan 3¼-ton Battery/Electric Locos., Three Chasidie Shovels, Four Elmo Rocker Five Battery Charging Rectifiers; Three Motor driven Fans; Seven Generating Sets; Four Murex Welding Sets; Cable Spencer-Hopwood Vertical Boiler; C.P.T. and Holman Air Drills and Breakers; I.R. Drill Shank Machine; 2,000lb. and 300lb. Explosives Magazines; C.M.C. and Myford Centre Lathes; Whitehead 32in. Circular Saw; Bench 8. and D. Valve Refacer; large quantity of Plant Spares; 2,300yd. Jubilee Track; 12,000ft. x 6in. Steel Piping; 1,700ft. 4in. Ditto; 5,400ft. 1½in. Air Trunking; Cabinetry; Cabinetry; Corrugated Sheeted Sheeted; 16 tons No. 3 Larsen Piling; 10/30ft. lengths; Gas Welding and Cutting Tackle; Theodolites and Levels, etc.

On view one week prior to Sale. Catalogues from **EDWARD RUSHTON, SON AND KENYON, 12 York Street, Manchester, 2 (Tel. CENTRAL 1937); or 50/51 Broad Street Avenue, London, E.C.2** (Tel.: LONDON Wall 4601).

**INVENTIONS**

**INDUSTRIAL ENGINEERS OF REPUTE** invite, with confidence, DETAILS of INVENTION with object of manufacturing and world distribution. Write Box K.I.517, "The Contract Journal."

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Rothbone

**SALES BY AUCTION**

E — — — R

By Order of the Secretary of State for War.

**FULLER, HORSEY, SONS AND CASSELL** have been instructed to offer for SALE by AUCTION in Lots at the ROYAL ARSENAL, WOOLWICH, LONDON, S.E.18, on TUESDAY, 8th MARCH, 1960, and following days, at 10.30 a.m. precisely each day

**ENGINEERS' MACHINE TOOLS,**  
**INDUSTRIAL EQUIPMENT AND SURPLUS**  
**STORES**

including —

Cincinnati HYDROMATIC and PLAIN HORIZONTAL MILLING MACHINES, VERTICAL, HORIZONTAL, ROTARY and SPINDLE MILLING MACHINES by Richmond, Edgwick, Archdale, Reinecker and others; Lund Precimax, Churchill and Norton UNIVERSAL GRINDERS, Arter SURFACE GRINDER, B.S.A. CYLINDRICAL GRINDER, S.S. and S.C. LATHES, CAPSTAN LATHES, Cincinnati 20in. CINTALATH, DRILLING MACHINES, SLOTTING and SHAPING MACHINES, WOODWORKING MACHINERY, 500 tons SPARES for Electrical Road Rollers, Generating Sets, Tar and Bitumen Distributors, Stone Crushers, Refrigerators, Cranes, Decauville Locos., Concrete Mixers and Pumps, TRAILER MOUNTED DIESEL and ELECTRIC GENERATING SETS, Six Millars-Bamford 8 cu. ft. Petrol-driven ASPHALT MIXERS, 32 Parkwood and Avery Hardroll Hand-operated 8 g.p.m. KERBSIDE PETROL PUMPS, FORK LIFT TRUCKS, large quantity BUILDERS' IRONMONGERS and ELECTRICAL STORES, 75 tons INSULATED and other ELECTRICAL, 5½ tons COPPER WIRE, 600 LENGTHS GRAVITY ROLLER CONVEYOR, 6,500 FIELD TELEPHONE SETS, 2,000 pairs BINOCULARS, RADIO STORES and EQUIPMENT, Prismatic Compasses, 15,000 MEAS. GREATCOATS, 132 rolls 36in. GREEN CANVAS, Service Clothing, and numerous other effects.

Catalogues, 1s. each, admitting two persons on view days (Wednesday, Thursday, Friday and Monday preceding Sale) and one on Sale Days, may be had, when ready, from the AUCTIONEERS' OFFICES, Dept. X, 10 Lloyds Avenue, London, E.C.3.

By Instructions from the Executors of H. B. Thomas, deceased.

WENDENS AMBO, ESSEX.

(2 miles from Saffron Walden)

SALE by AUCTION of

**CONTRACTORS' EQUIPMENT**

including —

33ft. CRANE on revolving base; Winset Cement Mixer, propelling; Two Cement Mixers; Dumper; Portable Electric Welder; Power Hack Saw; Large Drilling Machine; Paint Sprayer; Electric Motors; Fordson Tractor, with Shovel; Two other Tractors; ex W.D. Ford V8 Shooting Brake; Various Tools; Electrical Fittings; Large Doors; Parts of Two Large Huts. Which MESSRS.

**ERNEST JENNINGS**

have had removed for convenience of sale to THE STATION GARAGE, STATION ROAD, WENDENS AMBO, to be offered on WEDNESDAY, 24th FEBRUARY, 1960, commencing at 2 p.m.

Catalogues may be obtained, in due season, from the Auctioneers, 3 Cross Street, Saffron Walden, Tel. 2329.

**ONLY ANNOUNCEMENT.**

THE WORKS, BROOMFIELD AVENUE,

TELScombe CLIFFS, near PEACEHAVEN, SUSSEX. Situate in Broomfield Avenue, off the Brighton-Lewes Coastal Road, near the station, Brighton. The turning is by Telscombe Stores.

**SALE OF THE ENTIRE**

**BUILDERS' AND CONTRACTORS' PLANT,**  
**TOOLS, ENGINEERS' MACHINERY AND**  
**MOTOR VEHICLES.**

including —

1954 VANGUARD ESTATE CAR (radio, etc.); 1952 BEDFORD L.W.B. 5-ton LORRY; AUSTIN 2-ton L.W.B. LORRY; CHEVROLET 4-wheel Drive BREAK-DOWN LORRY, fitted Crane; Four CONCRETE MIXERS; 2,000ft. SCAFFOLD TUBING and 100 BOARDS; 1,000 FITTINGS; 75 LADDERS, Steps, etc.; 100 sheets FLAT STEEL, 6ft. x 3ft.; 100 Flush Panel and GARAGE DOORS; 800 Wooden Nissen Hut Sections; Three BUILDERS' SITE SHEDS; 500 CORRUGATED SHEETS (8ft.); Greenhouse; 2,500 Electric LIGHT BULBS; 1,500 Rolls Felt and Dampcourse; 3,000ft. TIMBER; 25 Baths, Basins, Sinks, etc.; 10 tons NUTS and BOLTS; 2,000 gross SCREWS; 100 gallons PAINT; THE STEEL SAFES (Tanks and others); Hand Tools; 10 sets STOCKS and DIES; Two Platform Scales; Pipe Bending and Screwing Machines; Grass Cutter; Five Hydraulic Jacks; six 1½-ton CHAIN LIFTING PICKLES; Steep Bar Guillotine; BLACK AND DECKER VALVE REFACER; Two B. and D. 9in. Ripsorters; ARC WELDER; 20 Electric Motors; Eight A.E. COMPRESSORS; two SAW-BENCHES; 11 Electric Bench Drills; Screw Cutting Lathe; Two 9in. D.E. GRINDERS; KANGO MAJOR HAMMER; Scammell and Sludge PUMPS; Works Wireless Receiver, complete with Microphone, Five Speakers, etc.; Crowbars; Picks; Feed Bins; Fencing and Barbed Wire and Staples; 25cw Nails; 40cw. Angled Steel; Two Electric Planing Machines, comprising in all 900 Lots.

**T. BANNISTER AND CO.** will sell by AUCTION upon the PREMISES as above on WEDNESDAY, 24th FEBRUARY, 1960.

By order of The Victoria Engineering Works, who are Sale to commence at 10.30 a.m.

Light refreshments.

All lots on view morning of Sale. Catalogues at place of Sale or of: **T. BANNISTER AND CO., F.R.I.C.S., Market Place, Haywards Heath, Sussex** (Telephone 607).



## CONCRETING *in cold weather*

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# '417' cement

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G. & T. EARLE LIMITED, HULL  
THE SOUTH WALES PORTLAND CEMENT  
& LIME COMPANY LIMITED, PENARTH, GLAM.



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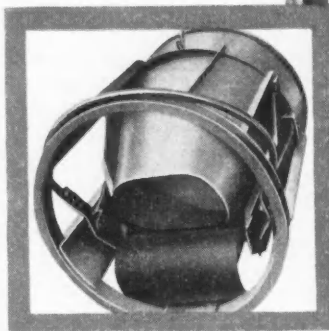
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For full details write for Publication 296

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**KENSINGTON 5151**  
BK581

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Bamford, J. C., (Excavators), Ltd.	IIIA, IVA, VA	H		Ransomes & Rapier, Ltd.	799
Barnards (Norwich), Ltd.	824	Helicopter Services, Ltd.	786	Raylor, J. W., (Engineers), Ltd.	794
Batley, Ernest, Ltd.	799	Hill, Richard, Ltd.	905	Road Machines (Drayton), Ltd.	816, 817
Benford, Ltd.	799	Holman Bros., Ltd.	884	Road Rollers, Ltd.	882
Beresford, James, & Son, Ltd.	890	I		Ruston-Bucyrus, Ltd.	826
Blaw Knox, Ltd.	844	International Harvester Co. of Great Britain, Ltd.	IV, V	Ryland Bros., Ltd.	830
Bowen, James, & Son, Ltd.	818	J		S	
Branch, Jack, (London), Ltd.	818	Johnson, C. H., (Machinery), Ltd.	819	Saville (Tractors), Ltd.	Cover I
Bray Construction Equipment, Ltd.	IX	Jones, William, Ltd.	901, 814	Saxon & Co. (London), Ltd.	911
Breedon, Wilmot, Ltd.	XIA	Joy-Sullivan, Ltd.	vib, viib	Scammell Lorries, Ltd.	843
Bristol Plant Hire, Ltd.	796	K		Search, William G., Ltd.	816
British Building & Engineering Appliances, Ltd.	796	Kebric Plant, Ltd.	823	Selwood, W. R., Ltd.	886
British Cellophane, Ltd.	910	Kirkby & Sons (Sales), Ltd.	818	Sharp Jones & Co., Ltd.	879
British Paints, Ltd.	II	Kitching Alf.	914	Shell-Mex and B.P., Ltd.	VIIIa
British Steel Piling Co., Ltd.	316	L		Sieber, James, Equipment Co., Ltd.	818
British Vacu-Lug, Ltd.	794	Lafarge Aluminous Cement Co., Ltd.	821	Simdine	nb
Broom & Wade, Ltd.	815	Leach, Hubert C., Ltd.	804	Simms, W. J., Sons & Cooke, Ltd.	876
Buckton, Ltd.	K	Leverson, H., & Co., Ltd.	Cover VII	Small & Parkes, Ltd.	912
Burn Bros. (London), Ltd.	908	Liner Concrete Machinery Co., Ltd.	789, 908	Smith, Thos. & Sons (Rodley), Ltd.	913
C		M		Stack Protection, Ltd.	796
C & A. Plant Services, Ltd.	814	Mackay Industrial Equipment, Ltd.	795	Stanley, W. F., & Co., Ltd.	904
Caldwells, Ltd.	796	Marley Concrete, Ltd.	881	Survey & General Instrument Co., Ltd.	917
Cartruk, Ltd.	786, 802	Marshall's Organisation	VI	Symes (Plant Sales), Ltd.	804
Castle Moulded Products Co., Ltd.	814	Mercantile Credit Co., Ltd.	812	T	
Cement Marketing Board Co., Ltd.	243	Merton Engineering Co., Ltd.	812	Tarmac Roadstone, Ltd.	I
Chain Link Fencing, Ltd.	96	Michigan (Great Britain), Ltd.	880	Thorn, J., & Sons, Ltd.	798
Chamberlain Plant, Ltd.	XIA	Minnesota Mining & Manufacturing Co., Ltd.	Cover VI	Thwaites Engineering Co., Ltd.	III
Clifton, J., & Sons, Ltd.	X	Mobile Haulage Co., Ltd.	792, 793	Timeg, Ltd.	802
Cohen, George, Sons & Co., Ltd.	813, 887	Moore's Plant, Ltd.	912	Tirfor, Ltd.	906
Cole, E. R., Ltd.	904	Myers, Fred, Ltd.	IVC, VC	Trist, Hubert H. P., & Co., Ltd.	788
Comacore Engineering, Ltd.	877	N		U	
Consolidated Pneumatic Tool Co., Ltd.	846	Northide, Ltd.	910	Under Water Welders & Repairers, Ltd.	888
Construction Machinery, Ltd.	891	Norwest Construction Co., Ltd.	886	Universal Divers, Ltd.	914
Contractors Services, Ltd.	Cover IV	O		V	
Cowley, Martin, Ltd.	878	Olding, Jack, & Co., Ltd.	Cover VII	Val de Travers Asphalte Paving Co., Ltd.	883
Cox, H., & Sons (Plant Hire), Ltd.	802	P		Victor Products (Walsend), Ltd.	790
Cripps, R., & Co., Ltd.	VII	Parker, Frederick, Ltd.	785	Vigol Oil Co., Ltd.	VIII
D		Peel, H., Ltd.	804	W	
Davidson's Paper Sales, Ltd.	Cover V			Ward, Thos. W., Ltd.	787, 797
Davies, O. L., Ltd.	890			Waleamur Co., Ltd.	907
Davies, Alan R., Ltd.	904			Whitlock Bros., Ltd.	Cover II and III
Dawson, W., Ltd.	820			Wilmslow Plant Hire Co., Ltd.	818
Dav. C. E. M., Ltd.	790			Winget, Ltd.	IIb, IIb
Derbyshire Tractor Service	886				
Diving Services, Ltd.	870				
Doe, Ernest, & Sons, Ltd.	803, 909				
Dorman Long (Steel), Ltd.	909				
E					
Edrison Plant, Ltd.	VIIB				
Enlish Electric Co., Ltd.	IXA				
Enlish Tools, Ltd.	IXA				
Euclid (Great Britain), Ltd.	IXA				
Evode, Ltd.	800, 801				



# Advertisements received too late for Classification

## EDINBURGH CORPORATION.

### FILTER SAND WASHING AND DEWATERING PLANT.

TENDERS are invited for the SUPPLY of a SAND WASHING AND DEWATERING PLANT capable of handling 20 tons of filter sand per hour. Copies of the Specification may be obtained from the City Water Engineer, 6 Cockburn Street, Edinburgh, 1.

Tenders must be lodged in a sealed envelope, endorsed "Filter Sand Washing and Dewatering Plant," with the TOWN CLERK not later than 10 a.m. on MONDAY, 21st March, 1960.

The Corporation shall not be bound to accept the lowest or any Tender.

## HEANOR URBAN DISTRICT COUNCIL.

### ROAD MATERIALS.

TENDERS are invited for the SUPPLY of the FOLLOWING for the 12 months ending 31st March, 1961—

- Tarred and Bituminous Limestone.
- Tarred and Bituminous Granite.
- Concrete Kerbs.
- Cold Asphalt.
- Prepacked Chippings (Granite, Limestone, Gravel and Slag).
- Sand and Cement.

Forms of Tender will be supplied on application to I. H. GARRISON, Esq., for the tractors will be required to take in part exchange a 1953 Ferguson Diesel Agricultural Tractor, which can be inspected by appointment at the Sewage Disposal Works, Farm Road, Esher.

Forms of Tender may be obtained from the Engineer and Surveyor, Council Offices, Esher. Tenders, on the prescribed form, enclosed in a sealed envelope, marked "Tender for Tractors, etc.," and bearing no mark or name indicating the sender, must be received by the undersigned not later than 5 p.m., 4th MARCH, 1960.

FREDERICK EDWARDS,

Clerk to the Council.

Council Offices,  
Heanor,  
Derbyshire,  
12th February, 1960.

## ESHER URBAN DISTRICT COUNCIL.

### TENDERS FOR THE SUPPLY OF TRACTORS AND GRASS-CUTTING EQUIPMENT.

TENDERS are invited for the SUPPLY and DELIVERY of ALL or ANY of the FOLLOWING ITEMS—

- Two new Massey-Ferguson 35 De Luxe Diesel Industrial Tractors.
- Two Sta-dri (or similar make) Cabs, complete with Electric Windscreen Wipers.
- One Massey-Ferguson 3-ton Semi-mounted Tipping Trailer.

One Ransomes 30in. Verge Cutter Motor Mower. The successful bidder for the tractors will be required to take in part exchange a 1953 Ferguson Diesel Agricultural Tractor, which can be inspected by appointment at the Sewage Disposal Works, Farm Road, Esher.

Forms of Tender may be obtained from the Engineer and Surveyor, Council Offices, Esher. Tenders, on the prescribed form, enclosed in a sealed envelope, marked "Tender for Tractors, etc.," and bearing no mark or name indicating the sender, must be received by the undersigned not later than 5 p.m., 4th MARCH, 1960.

FREDERICK EDWARDS,

Clerk to the Council.

Council Offices,  
Esher, Surrey,  
12th February, 1960.

**SALES ENGINEERS REQUIRED BY BLAW KNOX, LTD.,** in the paver and earthmoving divisions. Applicants must have experience of selling capital equipment at highest prices. Good prospects, varied and excellent scope and good prospects.—Write, quoting experience, age, etc., to Division Director (Sales), Blaw Knox, Ltd., 90/94 Brompton Road, S.W.3.

**CIVIL ENGINEER,** under 30, University Graduate or A.M.I.C.E., REQUIRED in head office of long-established firm of Civil Engineers. Varied and interesting employment offered in the diagnosis of the defects in structures, the preparation of remedial schemes and tendering for same. Planning and administration of contracts. Applicants must have had some years' site experience with general contractors. Permanency and good prospects for a man with ability and drive, able to work on own initiative. Pension scheme.—Reply, in confidence, stating age, education, experience and present salary, to: T. WHITLEY MORAN M.I.C.E., 5 Old Hall Street, Liverpool, 3.

**CIVIL ENGINEERS REQUIRED,** age group 23-30 years, for sewage disposal works, roads and industrial contracts. Positions are progressive and experience varied. Applicants must have experience in setting out, measurements, good civil engineering background, and hold a driving licence.—Applications in confidence, stating full details, including age, experience and qualifications, to: INGRAM CONSTRUCTION, LTD., 75 Hobs Moat Road, Solihull, Warwick.

**AGENTS REQUIRED** for trunk road and sewerage contracts. Progressive situation with top remuneration for experienced men of proven ability.—COSTELLOE AND KEMPLE, LTD., Cheltenham.

**QUANTITY SURVEYORS REQUIRED** by associate company of national building and civil engineering contractors in Leeds. Permanent appointments with excellent opportunities for advancement; good salary and conditions and entry into superannuation scheme after 12 months' service.—Applications, which will be treated in the strictest confidence, to ARTHUR WATERMAN, LTD., Moorland Works, Gelderd Road, Leeds, 12.

**ESTIMATOR REQUIRED** in our southern area office situated in Reading. The successful applicant will be fully conversant with all aspects of estimating both with regard to building and civil engineering contracts. Apply in writing, stating age, experience, and salary required to LOWTON CIVIL ENGINEERING, LTD., 102 Connaught Road, Reading, Berkshire.

**SENIOR AGENT,** age 30-40, with experience of gas and water main laying. REQUIRED by medium-sized firm of public works contractors for contracts in London and Home Counties. Permanency for suitable applicant. Non-contributory pension scheme. State age, experience and salary required.—Write, giving details of experience, etc., to Ref. EGS, Box V.1252, "The Contract Journal."

**AN experienced ENGINEER REQUIRED** for contract in Gloucestershire. Must be capable of working on own initiative, and able to deal with interim accounts and claims.—Reply, giving full details of past experience and approximate salary requirement, to Box V.1251, "The Contract Journal."

**GENERAL FOREMAN/SITE SUPERVISOR REQUIRED** for civil engineering contracts in West Africa with an old-established British firm. Applicants should have experience overseas of working with local labour, and preference will be given to men with previous experience in West Africa. Permanent position with good conditions, 18-month tours.—Write, giving details of experience, etc., to Ref. EGS, Box V.1252, "The Contract Journal."

## BOROUGH OF GRAVESEND.

TENDERS are invited for the SUPPLY and DELIVERY of (a) FORD THAMES 15CWT. TRUCK, and (b) 24in. DENNIS MOTOR MOWER, in part exchange for existing machines.

Specification and Form of Tender from Borough Engineer and Surveyor, 6 Woodville Terrace, Gravesend, on receipt of stamped addressed envelope. Tenders, on the form provided, to be delivered in a plain sealed envelope endorsed "Truck" or "Mower," to the undersigned not later than WEDNESDAY, 9th March, 1960.

The Council does not bind itself to accept the lowest or any Tender.

F. W. HARRISON,

Town Clerk.

Woodville Terrace,  
Gravesend,  
February, 1960.

## BOROUGH OF BARKING.

### THAMES VIEW HOUSING ESTATE.

#### PILE FOUNDATIONS TO COMMUNITY HALL.

TENDERS are invited for the PROVISION and DRIVING of 31 PRECAST CONCRETE PILES or PRECAST CONCRETE SHELL PILES WITH REINFORCED CONCRETE FOUNDATION BEAMS AND SLABS for the proposed Community Hall on the above Estate.

Tender documents can be obtained from the Borough Engineer and Surveyor, Town Hall, Barking, and should be returned to The Worshipful Mayor, Town Hall, Barking, by 9 a.m. on MONDAY, 7th March, 1960.

E. R. FARR,

Town Clerk.

Woodville Terrace,  
Gravesend,  
February, 1960.

## CITY OF HEREFORD.

### CHANGING ACCOMMODATION—KING GEORGES PLAYING FIELDS.

TENDERS are invited for the ABOVE WORKS. Drawings and Specification may be obtained from the Office of the City Surveyor, on deposit of Two Guineas, refundable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in the envelope provided, and bearing no mark or indication of the sender, must be delivered to me not later than 9 a.m. on the 5th MARCH, 1960. The Council do not bind themselves to accept the lowest or any Tender.

T. B. FELTHAM,

Town Clerk.

Town Hall,  
Hereford,  
February, 1960.

## WAREHAM AND PURBECK RURAL DISTRICT COUNCIL.

### WOOL WATER SUPPLY AND SEWERAGE SCHEMES (SECOND STAGE).

#### CONTRACT NO. 31.

TENDERS are invited from experienced public works contractors for the FOLLOWING:—

- (a) The Provision and Laying of about 3 miles of 6in. dia. concrete and 3in. dia. Spun-Iron Water Mains and about 1½-mile of Polythene Tube as House Connections.
- (b) The Provision and Laying of about 4 miles of 9in. and 6in. dia. concrete and 3in. dia. Spun-Iron Sewers. Stoneware Laterals as required, 1 mile of 6in. dia. Spun-Iron Rising Main, and the Construction of Two Sewage Pumping Stations.

Together with other incidental works, all at Wool, in the County of Dorset.

Contract documents may be obtained from the Engineer, ARTHUR G. FLATT, M.B.E., Chartered Civil Engineer, at Westport House, Wareham, on payment of a deposit of £10, which will be refunded on the receipt of a bona-fide Tender, not subsequently withdrawn. Drawings may be seen at the Office of the Engineer during usual office hours.

Tenders, in plain sealed envelopes, endorsed "Wool Water and Sewerage," must reach the undersigned not later than First Post on MONDAY, the 28th day of March, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

C. F. J. DURANT-LEWIS,

Clerk of the Council.

Westport House,  
Wareham,  
Dorset,  
15th February, 1960.

**MEASURING SURVEYOR REQUIRED.** Applications are invited for the post of Measuring Surveyor in connection with maintenance work at United Kingdom Atomic Energy Establishment, Winfrith. Thorough knowledge of W.D. schedule essential.—Apply in writing, stating age, experience and salary required, to JAMES DREWITT AND SON, LTD., Ringwood Road, West Howe, Bournemouth.

**SITE CLERK** for road contracts in London area. Must be experienced. Wages, timekeeping, cost records and materials checking.—Write age, experience and salary required, Secretary, FITZPATRICK AND SON (CONTRACTORS), LTD., 455 Old Ford Road, London, E.3.

**ESTIMATOR.** Applications are invited by civil engineering and building contractors for the position of ESTIMATOR in their head office. Applicants must have had previous site experience and preferably a number of years' experience in the preparation of tenders for heavy civil engineering and industrial building contracts, including reinforced concrete-framed structures. The position is permanent and carries a good salary, bonus, and conditions, and entry into the superannuation scheme will be arranged after 12 months' service.—Applications, giving full details of previous experience, will be treated in strictest confidence and should be addressed to THE MITCHELL CONSTRUCTION CO., LTD., Wharf Works, Peterborough.

**TAYLOR WOODROW CONSTRUCTION, LTD.,** REQUIRE an experienced COST CLERK, accustomed to civil engineering works, on the Hinkley Point atomic power station contract, near Bridgwater, Somerset. This is a staff appointment. Camp accommodation available.—Write to the Agent.

**CIVIL engineering contractors REQUIRE AGENTS and CIVIL ENGINEERS** for Scottish contracts. Must be prepared to live away from home.—State age, experience and salary, to Box 9926, William Porteous and Co., Glasgow.

**AGENTS, SUB-AGENTS and SETTING-OUT ENGINEERS REQUIRED** for civil engineering contracts in England and Wales.—Apply in writing, stating age, qualifications, experience and salary required, to Box V.1263, "The Contract Journal."

## BUCKS. COUNTY COUNCIL.

### PRIVATE STREET WORKS.

#### ALMOND ROAD, BURNHAM.

TENDERS are invited for the MAKING-UP of the ABOVE STREET. Specification, Form of Tender and Contract and Bill of Quantities may be obtained from the County Surveyor, County Offices, Aylesbury. Applications must be accompanied by a remittance for £2, which will be refunded on receipt of a bona-fide Tender.

Sealed Tenders must be delivered to the undersigned by MONDAY, 7th March, 1960, in the envelope provided, endorsed "Private Street Works," but not bearing any name or mark indicating the sender.

The Council do not bind themselves to accept the lowest or any Tender.

R. E. MILLARD,

Clerk of the Bucks. County Council.  
County Hall,  
Aylesbury.

## CITY OF CHESTER.

### TENDERS.

#### PRIVATE STREET WORKS ACT, 1892.

TENDERS are invited for the MAKING-UP of DICKSONS DRIVE (Part only), approx. 90 lin. yd., and also for BROADWAY EAST (Part only) and BROADWAY WEST (Part only), approx. 210 lin. yd. The work comprises Carriageway Foundations (part), Surfacing and Drainage, and the Making-up of the Footways and Verges.

Tender documents may be obtained from the City Engineer and Surveyor, 49 Northgate Street, Chester. Tenders, in separate sealed envelopes, endorsed accordingly, must be returned to reach the TOWN CLERK, Town Hall, Chester, not later than SATURDAY, the 5th March, 1960.

## UPTON - UPON - SEVERN RURAL DISTRICT COUNCIL.

### NEWLAND SEWERAGE AND POWICK SEWAGE DISPOSAL WORKS EXTENSIONS.

#### APPOINTMENT OF RESIDENT ENGINEER.

The Council invite APPLICATIONS from experienced persons for APPOINTMENT as RESIDENT ENGINEER to supervise the construction of the above works under the direction of the Engineers, MESSRS. WILCOX, RAIKES AND MARSHALL, of the above firm. The contract for the work is due to be completed in November, 1960.

Applications, giving full particulars of experience, age, stating salary required, together with the names of three engineers or previous employers to whom reference can be made, should be delivered to the undersigned on or before 12 Noon, SATURDAY, 5th March, 1960.

E. A. TURNER,

Clerk of the Council.

Council Offices,  
Upton-upon-Severn,  
Worcester,  
15th February, 1960.

## BOROUGH OF NELSON.

For SALE: Smith 2/10 EXCAVATOR, Serial No. 13886, complete with Skimmer, Backacter and Dragline equipments. Well maintained and in good working order. Any inspection, £600 or nearest offer. Apply BOROUGH ENGINEER'S OFFICE, Town Hall, Nelson.

**ENGINEERS REQUIRED** for trunk road and sewerage contracts. Progressive situations with top remuneration for experienced men of proven ability.—COSTELLOE AND KEMPLE, LTD., Cheltenham.

**HUSSEY, EGAN AND PICKMEER, LTD.,** have vacancies for SUB-AGENTS and SETTING-OUT ENGINEERS on civil engineering contracts in England and Wales. Previous experience essential.—Apply to Head Office, 24 Calthorpe Road, Edgbaston, Birmingham, 15, giving details of previous experience and stating age and salary required.

**PLANT MANAGER REQUIRED** to take charge of plant department of medium-sized firm of building and civil engineering contractors. Only personnel with previous experience in handling a plant department and with appropriate administrative experience should apply. A car will be provided and the position will not involve living away from home. The appointment will carry a four-figure salary and will be permanent after a probationary period, and the applicant will then be considered for superannuation benefits.—Applications, giving full particulars, to WM. EAVES AND CO., LTD., Vicarage Lane, Blackpool.

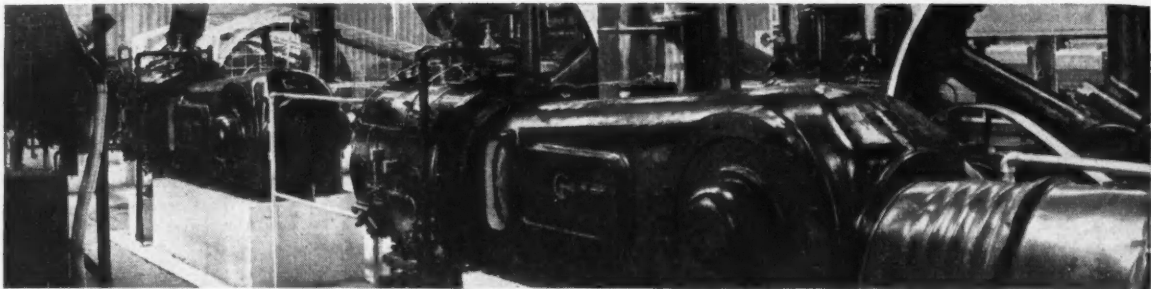
**HENRY OSMAN AND CO., LTD.,** REQUIRE experienced SENIOR AGENTS, SUB-AGENTS, ENGINEERS, FOREMAN and GANGERS for civil engineering contracts in the South of England. Staff pension scheme.—Applications, stating age, qualifications, experience, salary required, to the General Manager, HENRY OSMAN AND CO., LTD., Winchester Road, Southampton.

**QUANTITY SURVEYORS REQUIRED** by major firm of building and civil engineering contractors with national interests. Permanent appointments with excellent opportunities for advancement; good salary and conditions and entry into superannuation scheme after 12 months' service.—Applications, which will be treated in the strictest confidence, to THE MITCHELL CONSTRUCTION CO., LTD., Wharf Works, Peterborough.

**SENIOR and JUNIOR ENGINEERS and MEASURING SURVEYORS** are REQUIRED for building contracts in England. These are permanent appointments with good prospects, bonus and superannuation schemes in operation.—Applications, which will be dealt with in strict confidence, must give details of age, experience, qualification, and salary required, and should be addressed to Personnel Officer, TARMAC CIVIL ENGINEERING, LTD., Ettingshall, Wolverhampton.

**CIVIL ENGINEER,** experienced in site work, concrete control, and preferably with some knowledge of concrete piles. REQUIRED by national firm of building and civil engineering contractors. Applicants should have passed parts one and two of the I.C.E.—Write, giving full details, to Box V.1264, "The Contract Journal."

**A FIRM** of public works contractors, specialising in Once ductwork, REQUIRE a first-class TRAINEE-AGENT possessing drive, initiative and ambition. Applicant must be young and willing to lodge in any part of the country as required. State age, references, etc., in first instance, to Box V.1127, "The Contract Journal."



The main compressor house carries an installation of Consolidated Pneumatic Class "T" Stationary Compressors for low pressure air.

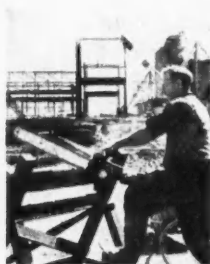
At Hinkley Point Atomic Power Station

## CP equipment is working hard for Taylor Woodrow...



Difficult conditions for drilling, but all in a day's work to the Consolidated Pneumatic G-800 Tracdrill, shown drilling 4" holes to 40-ft. in hard shale and limestone to clear a channel for the floating caisson.

Wherever big construction projects are going on, CP air compressors and power tools will be found at work on the site. An example of this is to be seen at Hinkley Point Atomic Power Station being built for the Central Electricity Generating Board by The English Electric, Babcock & Wilcox, and Taylor Woodrow Atomic Power Construction Co. Ltd. The civil engineering contractors, Taylor Woodrow Construction Ltd. are using a big proportion of CP equipment for every type of duty, not only to save time and man-power but also to maintain their high standards. These pictures illustrate the complexity of operations being carried out at Hinkley Point. The excellent progress achieved by Taylor Woodrow reflects in some measure the efficiency of the CP equipment they have chosen for this work.



A CP pneumatic chain saw proves a great time-saver for the many timber construction jobs occurring on a big contract.



Removal of water is a frequent problem on contracting work. The rugged CP-77 Sludge Pump can be relied upon for continuous duty in the roughest conditions.



# Consolidated Pneumatic

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CP/197

# THE CONTRACT JOURNAL

INCORPORATING  
THE BRITISH CONSTRUCTIONAL ENGINEER AND THE CONTRACTOR

THE CONTRACT JOURNAL  
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and  
THE CONTRACTOR  
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Editor:  
LAWRENCE MCCARTHY

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## Advertisements

Advertisement rates may be obtained on application to R. Binfield, Advertisement Manager.

## BUILDING TECHNIQUES

AN effective retort to anyone who still cares to criticise the construction industry as inefficient was given by Mr. Ronald Wates recently in an address to the Chartered Auctioneers' and Estate Agents' Institute, a report of which appears elsewhere in this issue. He emphasised that the progress in building techniques in the last 15 years has been continuous and over a broad front. There were three main features of this progress: The increase in the skill of management; the closer interplay that is emerging between design and construction; and the "enormous improvement" that has been made in builders' plant.

In the past five years building materials and building labour have advanced in cost by something over 20 per cent. Despite this advance in the index, in actual fact the cost per foot super. of the flats we are building today is within a few pence of the cost five years ago. It can be said, therefore, that the influence of higher management skill and the better understanding of the interplay between construction and design have resulted in substantial cost reduction.

Mr. Wates' statement can be substantiated over a longer period and over the industry as a whole. In the case of local authority housing, for example, the cost per square foot of a three-bedroom house rose from 23s. 10d. in the fourth quarter of 1947 to 32s. 9d. in the fourth quarter of 1958, according to figures published by the Ministry of Housing and Local Government. This is a rise of 37 per cent. Over the same period basic building wages rates rose by 92 per cent. (from 2s. 6d. to 4s. 9d. an hour), and building materials prices by about 60 per cent.

Since 1947, output per man has improved by some 25 per cent. The operatives can of course justly claim some credit for this. But there is not the slightest doubt that the factors listed by Mr. Wates have made a vital contribution. Some months ago the European Productivity Agency commented that a revolution was taking place in the building industry that might well change its character and future as completely as the textile industries were changed in the eighteenth century. Mechanisation in the industry and the assimilation of new ideas has wrought a new scientific approach to building problems.

On a building site today the emphasis is on organisation for the elimination of wasteful labour and for speeding up the work. There has been a marked improvement in site planning and organisation. Work study, so long limited to factory production, is being applied to more and more building operations. Building owners, architects and contractors are now realising more fully that the general adoption of advance planning principles can reduce costs substantially. No industry or enterprise can be better than the skill and ability of those who control its affairs; the industry is making huge strides in improving its management practices and during the last few years has evolved clearly defined patterns of study and practical experience for its future managers and supervisors.

Mr. Wates has done a service to the industry in pointing to an improvement in its efficiency and in focussing attention on the important advances being made by contractors. Their task has not been easy; every year since the war the industry has been hampered in its efforts by being so closely tied to fluctuating national economic policies. But the headway it is making is now showing up in the facts and figures. The lesson for all is clear. Give the industry an opportunity to plan its future development in a stable atmosphere and the achievements so far will mark only the beginning of a persistent and even spectacular advance.

## Cost of Running Estates

WITH the assistance of local authorities, Mr. Henry Brooke, Minister of Housing and Local Government, hopes to initiate within the next few months a full study of the management and maintenance costs of housing estates. As the scale of housing increases, the cost of running council housing estates becomes increasingly important nationally; it is necessary to recognise that management and maintenance costs are in the long run as important as capital costs.

This move by the Minister is to be welcomed. As he told the recent conference of the Society of Housing Managers, if a national system of costing could be devised, which would produce reliable comparisons for the various services which make up the costs of management and for the elements of maintenance on houses of different age and design, it would provide a most valuable index of efficiency and economy, benefiting both landlord and tenant.



# A LAWYER CONSIDERS . . .

## The Issue of Payment for Extras

IT has been disappointing to many in the industry that the revised R.I.B.A. Standard Form of Contract has been so long in appearing. We now know from the N.F.B.T.E.'s annual report that the delay is primarily due to a major clash between the contractors and the employer's representatives on the important issue of payment for extras.

It is hardly worth saying that any building contract which does not contain reasonable provisions on this subject is better unsigned and no contractor could possibly agree to a contract which allowed the architect's and the employer's inefficiency or inability to make a definite decision to be at the contractor's expense. After all if they eventually realise that unplanned work, badly billed and with inadequate drawings, results in jobs turning out more expensive than originally thought it might result in better pre-contract planning. There seems little doubt, therefore, that the contractors on principle are right in refusing to support any revision of the R.I.B.A. Contract which does not safeguard their position on what is a crucial issue for them—after all they face bankruptcy or compulsory liquidation if they enter into contracts which turn out unprofitable because of unfair contract conditions, whereas, this is certainly not the case with many employers like local authorities. But it is worth considering how much room there is for compromise on this issue and to discuss therefore the adequacy or otherwise of the present position as to payment or other contractual benefits for extras under the R.I.B.A. Standard Form.

### Present Position

The R.I.B.A. Contract is a lump-sum contract under which the contractor's obligation is to "execute and complete the Works shown upon the said drawings and described by or referred to in the said Bills of Quantities and Conditions." Clause 1 then commences, "The Contractor shall carry out and complete the Works in accordance with this Contract in every respect in accordance with the directions and to the reasonable satisfaction of the Architect." Further on in Clause 1 the architect is given the right "in his absolute discretion and from time to time" to "issue further drawings, details and/or written instructions, written directions and written explanations" in regard to eight specified matters; these architect's instructions, etc. are specifically dignified with the title "Architect's Instructions."

Thus we may state that, provided the instructions are reasonably relevant to the sort of building contract entered into, the architect has unlimited power to issue instructions; and indeed there are throughout the contract some thirty or forty occasions on which the architect is empowered specifically to issue instructions either off his own bat or in response to requests by the contractor or even by a nominated sub-contractor. But these specific instances are merely illustrations of the general right conferred on the architect to issue instructions relevant in some way to the contract. Clearly, therefore, the contractor is bound to obey these instructions but then the question immediately arises—do they alter the contractor's prime agreement, namely to execute the works described in the bills and shown on the drawings for which he has had his price accepted? If they do then it follows that that price may be inadequate to cover the cost of this alteration to the contractor's prime agreement. In so far therefore as these instructions alter this prime agreement and are not issued as a result of any fault by the contractor, e.g., doing bad work which the architect has to instruct him to rectify, it would seem only fair that the contractor should either be paid if these alterations

involve him in loss or expense or given some other benefit as compensation.

### Specific Instructions

This principle has of course, in part and for many years, been recognised but so far there has not been inserted in the contract any general right to compensation or other benefit which would balance the general right of the architect to issue instructions relevant to the contract. Instead the method in the R.I.B.A. Contract has been adopted, at least since the 1931 edition, of setting out those specific instructions which may involve the contractor in loss or expense and giving him a specific right to claim such extra cost. These specific instructions are those set out in subparagraphs (a)-(h) of Clause 1 and given the title referred to above namely "Architect's Instructions." The right to claim extra cost for compliance with these "Architect's Instructions" is given in the all-important penultimate paragraph of Clause 1 which states, "If compliance with Architect's Instructions involves the Contractor in loss or expense beyond that provided for in or reasonably contemplated by this contract, then, unless such instructions were issued by reason of some breach of this contract by the Contractor, the amount of such loss or expense shall be ascertained by the Architect and added to the Contract Sum." Unfortunately it was not made clear in the 1939 edition that this penultimate paragraph was directly linked with the specific instructions labelled "Architect's Instructions;" in the penultimate paragraph in the 1931 edition the words "as aforesaid" appeared after "Architect's Instructions" in the penultimate paragraph thus clearly linking the two. There is little doubt though that this is still the meaning.

The following questions now arise. Given the general right, or in some cases the specific duty of the architect to issue instructions, is the right of the contractor to be paid any extra cost resulting therefrom sufficiently met by the penultimate paragraph of Clause 1? If not, are there any other remedies? If so, are these other remedies adequate?

To answer the first question one must look at the specific "Architect's Instruction" listed in Clause 1, paragraphs (a)-(h). The most important claims for extra cost of course relate to variations and additions or omissions or substitutions for any work and these are the subject of paragraph (a); the penultimate paragraph of Clause 1 used in conjunction with the valuation rules of Clause 9 where variations are concerned should be adequate to give the contractor proper remuneration. The other claims possible under the penultimate paragraph relate to Architect's Instructions to remedy discrepancies between drawings and/or Bills of Quantities, to remove or re-execute works, to alter the order of execution of the works, to open up works for inspection, to dismiss any person employed on the works, to remove materials and/or substitute other materials therefor; provided these Instructions are not issued because of any default by the contractor, and provided the contractor can show loss or expense, he can recover the extra cost involved.

### Important Omissions

The most important omissions from this list of Architect's Instructions are firstly those instructions which the architect issued as a result of deciding to nominate for certain work or for the supply of certain materials and second those which he is under a duty to issue after a request from the contractor. In regard to the first omission this means that delay in issuing a nomination for example cannot give rise to a claim under the contract for

extra cost though it could quite conceivably delay a job and cause considerable extra expense to the contractor. In regard to the second omission a failure to get instructions a contractor needs could quite easily result in loss and expense but again no claim is allowed under the contract.

The answer to the first question is therefore that the list of "Architect's Instructions" in Clause 1 contains some serious omissions so that in some circumstances a claim under the penultimate paragraph cannot arise. Are these omissions however because the contract provides some other adequate remedy?

To answer this one must turn to Clause 18. By this clause it is true that the contractor would have a claim for extension of time at least for one of the omissions referred to above and for both if the contractor has in fact requested a nomination in writing from the architect and not received it when it was needed. But all this means however is that the threat of having to pay liquidated damages for failure to complete on time can be averted. If, though, the contractor does by extra effort in fact complete on time he will not need any extension of time and cannot be repaid for the cost of this extra effort which he has had to make as a result of the default of the architect. The remedy under Clause 18 seems therefore not wholly adequate.

There is also the remedy or right if, as a result of Architect's Instructions in Clause 1 or of the various reasons (except strike or lock-out) for a claim for extension of time in Clauses 18 and 18(a), the whole works are delayed for a month for the contractor to determine the contract. This is however so drastic a step that except in exceptional circumstances it can hardly be considered a remedy of any practical significance.

### No General Right

Thus it appears that the contractor's right to claim for extras is on the whole not too unsatisfactorily dealt with under the R.I.B.A. Contract. But there is no general right to a claim comparable to the general right of the architect to issue instructions. Instead the authors of the Form have chosen to single out certain instructions and give the right to the contractor, as a result of these instructions, either to a claim for money to reimburse the loss or expense involved and/or to a claim for an extension of time or to determine the contract. Not surprisingly, when this singling-out process was adopted, there have been some omissions, the chief ones being instructions in relation to nominated sub-contractors and suppliers and instructions which the architect is under a duty to issue on written request from the contractor.

No doubt in an ideal world the architect's unfettered right to issue instructions would be balanced by a corresponding right in the contractor to claim for any resultant loss or expense he suffers. This ideal state is not reached in the existing R.I.B.A. Form and if indeed the delay in publishing the revised Form is caused by any desire to limit still further the contractor's claims for extra payment as a result of architect's instructions then one cannot blame the contractors for their refusal to give up such protection as they already have.

### BRISTOL-BIRMINGHAM MOTORWAY

With reference to the report appearing in our last issue of the impending award of a contract for the above scheme, we have been asked by the Ministry of Transport to state that the contract has not yet been let.

## HIGHWAY ENGINEERS DISCUSS RECENT DEVELOPMENTS IN BRIDGE DESIGN

THERE was a large attendance at the recent meeting of the Institution of Highway Engineers when Mr. C. S. Chettoe, B.Sc., M.I.C.E., and Mr. P. F. Stott, M.A., A.M.I.C.E., presented their Paper "Recent Developments in Highway Bridge Design."

In the ensuing discussion Mr. G. DAY (county surveyor, Cheshire) pointed to a statement in the Paper that both the four-span and two-span bridges required a central support between the two carriageways, and that this support required to be made substantial enough to stand after collision damage. He asked for the authors' views on providing a plinth at the base of a bridge to provide adequate support. He believed he had seen that done on the Preston By-pass.

Concerning the authors' point that the earth slopes under side spans should be pitched, a practice which gave some scope for the use of local materials, he said he had seen paved slopes and he was quite certain that local materials could be used with far more pleasing effect.

Commenting on a suggestion to use the new broad flange beam, he said that with composite reinforced concrete decks he thought it would be an economic alternative to prestressed concrete for spans up to, say, 76ft.

Mr. H. C. ADAMS (assistant chief engineer (bridges), Ministry of Transport) said that on the structural side the field of bridge designing was very largely still a battle ground. But on the aesthetic side the underlying principles were becoming fairly clear cut.

The authors had called attention to the lightness which we were coming to associate with our modern bridges, due, of course, to the introduction of prestressed concrete; that was probably the predominant factor in bridge design, the drive towards slenderness in the horizontal lines of many of the bridges.

There must be a limiting depth/span ratio, but there were various devices to achieve the appearance of slenderness even where it did not exist—as, for instance, in the transverse cross-section, by arranging a slender cantilever at the side which cast a small shadow beneath it and so split up the depth into two or three horizontal lines.

### Abnormal Loads

He asked to be allowed to suggest one or two slight corrections in the Paper in connection with the references made to abnormal loads. There was interest in abnormal loads and it was rather important that we should get our ideas clear on the matter.

Under the heading "Highway Loads" it was stated: "Normal loads are covered generally by the Construction and Use Regulations of the Ministry of Transport. Until recently the heaviest such load was a 22-ton lorry on three axles, the two back axles each of 8 tons; the loads are gross loads. This has now been increased to 24 tons, with back axle loads of 9 tons each." Mr. Adams said these Regulations were changed in April, 1955, and that lorry was required to be carried, not on "three axles," but on "not more than six wheels." The 1955 revision allowed for locomotives with more than six wheels to weigh up to 30 tons, and the maximum wheel load permitted was 11 tons.

The Paper also stated that the maximum wheel load, for abnormal loads, was 11½ tons. That was so if we divided the number of wheels by the number of axles; but the Regulations actually permitted 11½ tons.

Abnormal loads up to 150 tons were also allowed the free use of the road. There was no power to stop the vehicles

except by placing a restriction Order on a bridge, and that might have to be done even on some of our new bridges. There was another clause relating to loads above 150 tons, the movement of which was completely controlled, because they could move only by Special Order made by the Ministry of Transport. Those loads must be provided for.

To show how the number of loads above 150 tons (the gross weight of the load and the vehicle) was increasing, he gave the following figures: In 1957 there were 52; in 1958, 71; in 1959, 86. The number was still growing, largely in connection with the development of nuclear power stations. In 1959, 22 of such loads were in excess of 200 tons each. The heaviest was 260 tons, and there were six of those; they were heat exchangers which were moved by road 1½ miles and then brought by sea to their site. There was always some sort of road journey in connection with them, and very often they could not be moved by sea. The next heaviest load was 228 tons, which travelled from Stafford to Birkenhead docks.

The 150 tons as the maximum permissible load might have been slightly misunderstood. It was not quite correct to say that the Ministry of Transport maximum was 150 tons; that was a hypothetical figure merely dividing one class of vehicles from another, it was the limit for those that could be moved under one set of Regulations. Heavier loads were completely controlled, for their movement required a Special Order.

### Arch Structures

Mr. Adams shared the authors' liking for the use of the arch in bridges. It could be used most appropriately over rivers, because if we attempted to use it over a motorway, or over any road where we had to preserve high vertical clearance at the sides of the carriageways and beyond, over the hard shoulders, we should find that in most cases it was impracticable, because we should have to take whatever was carried by the arch so high up, and it became expensive. Where two roads crossed at substantially different levels, a difference of 30ft. or 40ft., and where the foundations were suitable, the arch was a very fine structure to use.

In the Paper it was stated that the most difficult overbridge to design satisfactorily is that carrying a subsidiary road with a steeply rising gradient over a motorway. Mr. Adams said we could add to that, as Mr. Chettoe had noted, a heavy skew, a curve and super-elevation, and then the problem became almost insoluble. The Ministry had experience of one or two such cases, and to his mind we could not get a completely satisfactory result in those conditions.

Footbridges over motorways and roads presented difficulty, mainly because of the heavy appearance we were bound to get where there were ramps and stairways at the sides; it was very difficult to make them fit in, in proportion, with a slender footbridge. One example was the footbridge over the Markyate By-pass, where the bridge itself was a very elegant and slender structure, but it was unavoidably spoiled by the masses of blocks at the sides which carried the stairways and ramps.

The happiest solution of that problem which he had seen, and he believed it was the brainwave of the Institution's president, Mr. James Drake, was on the Preston By-pass, where a footbridge had been arranged in the form of a reinforced concrete arch, and the stringer beams had been so shaped that they hid completely the stairs leading up to the footbridge.

MR. CHETTOE, replying to Mr. Day's remark concerning the use of plinths, said

they provided an excellent way of dealing with centre piers. There was a great variety of possibilities. We had so much standardisation nowadays that he felt we should take every opportunity to use local materials.

He shared Mr. Adams' love for arches and suggested that possibly the Ministry of Transport or the authorities in the areas might encourage their use when rebuilding by examining the kind of formwork required, which might be adjusted.

### Steel Bridges

MR. BEST referred to the type of steel bridges mentioned in the Paper where the road surfacing was laid directly on the steel plate, and said some bridges which would be going up shortly in London would have this type of deck. He had been in Germany recently, and there they had had a certain amount of trouble due to the road surfacing breaking up after several years of service.

As mentioned in the Paper, various methods had been used in Germany, including the use of steel strips welded to the plate as retainers for the asphalt, which he did not think was very satisfactory owing to the degree of welding required.

Some designers in Germany were of the opinion that, since the asphalt surfacing represented a relatively small proportion of the total cost, and it was fairly easily renewable, why should the design suffer? Why not design to the limit with the monolithic or orthotropic type of deck and renew the surfacing as required after some years? He personally did not agree with that, but he would like the views of the authors.

Referring to the Ascot Road bridge, Maidenhead By-pass, he asked what happened over the supports.

Mr. Chettoe said the Germans had used a great variety of decks. One bridge had a steel deck with concrete on the top, its reinforcement being welded to the steel plate.

MR. STOTT illustrated the detail of the supports used for the Ascot Road Bridge; the cross head was flush with the underside of the precast beam. It was in fact a simply supported construction.

MR. J. D. HARRIS (Messrs. A. J. and J. D. Harris) thought it could safely be said that about 30 years ago we had led the world in the construction of bridges here and abroad. They were chiefly steel bridges, and many firms here were still called in to deal with the largest bridges around the world.

### Different Factors

We should bear in mind that the labour and materials factors in Germany were very different from those here, in that they seemed capable of working hard off the ground as well as on the ground. Their large bridgeworks in prestressed concrete were in situ. He doubted very much that that would be economic here; in Germany they were in the fortunate position of having the most developed prestressed concrete industry in the world. Even so, they were still basically a selection of small firms which worked to everybody's advantage; the prices were less and services all round were better.

By the same token, perhaps, the steel people had suffered in that sense. In the old days they had formed themselves into associations and they had to have a real "surgical operation" to straighten things out and get on to their feet again. Whether they would be able to compete with the "backyard" industry of precasting in this country it was difficult to say. But he did feel that the contribution of this country for bridges in the future—and we were on the brink of some very large works—



would be in the precast field. The excellent example of the Hammersmith flyover rather suggested where we were going.

He would hate this country to end up with bridges like the Continental ones, because our problems were the labour and materials factors; everything about ours was so different and we wished to keep it so.

#### Germans' Advantage

Mr. Chettoe said the Germans had had a great advantage over us for a considerable period, in that they had had a great many bridges to design, whereas we had had very few. The Germans had quite a lot of aesthetic taste.

Mr. Stott confirmed the view that we should not slavishly follow Continental examples. The interest they might have for us was to show how particular problems were tackled in different circumstances and to enable us to consider how their methods applied to our own problems. Perhaps the main immediate impression he had formed in Germany was the high standard of concrete work.

Mr. F. K. SMITH (Freeman Fox and Partners) referred to the Ascot Road Bridge on the Maidenhead By-pass, which interested him because he was involved in the design of a bridge in which the post-tensioned system was being used, and one of the problems was that of the bearing length over the supports. He asked what the authors thought about the idea of bearing on the supports for post-tensioned beams, and also for pre-tensioned beams, which indicated that for pre-tensioned beams we needed a bigger distance. On the Maidstone By-pass the problem was overcome by overlapping the beams over the supports.

Mr. Stott felt that it was impossible to deal with the matter generally, for each particular arrangement had its own problems.

Mr. W. R. C. TAYLOR (Supercrete, Ltd., St. Boniface, Manitoba) said the problem which had been bothering him since he came to this country was that of the differences in bridge structures as between this country and the North American continent, where they used the box section to some extent; but there were a great number of simply supported "T" beams with a composite deck on top. He wondered what the authors thought about the economics.

Mr. Stott replied that he was surprised by the sort of composite design in which prestressed concrete beams replaced what

in the past might have been a steel beam in a composite construction, now often used for longer spans, say, 70ft. and upwards. He suspected that the reasons why the inverted "T" beam form of construction was still popular here were not only economic. We had a very closely built up system of roads, and there were inherent in many of the locations close limitations of construction depth.

Mr. HINSLEY added that the inverted "T" beam in concrete was generally used for spans of up to 40ft.-50ft. He asked for the authors' comments on the use of the large bored pile, which was becoming quite a practice in this country.

Mr. Stott, speaking of large cylinder foundations, said that in his opinion they were a very welcome addition to the army of foundation tools. Cylinders as such had a long history in bridge foundation work, but in this country at any rate it was only the recent flood of highly developed plants for sinking these large cylinders which had really made them an economic proposition for general use in suitable circumstances.

#### Availability

Much of the economics of their use must depend on the extent to which the equipments were readily available. We had had the experience of cast in-situ piles, and as the firms operating these processes had grown it had become a very economical method of using that sort of foundation even in very small quantities. He thought that when the operators had developed their techniques and equipment, the use of these cylinder sinking plants would tend to spread down to quite small jobs.

The fact that they had not been developed before now was due to the non-existence of the demand. A lot of our foundation work in this country tended to be developed by the dreadful conditions along the coasts, where we had very deep soft deposits, gravel layers, etc., but where big loads could be carried he was sure these new techniques and equipment would come into use.

Mr. SMITH (Lancashire C.C.) said that in Lancashire they could not complain of the lack of publicity which some of their schemes had been given in the Press! But he thought it was a pity that many of the bridges in this country had not received the informed publicity which they merited; he considered that less emphasis should be placed on Continental and American bridges and a little more on our own structures.

In the very substantial number of bridges built in Lancashire during the last few years they had produced variety of form at the various sites, with not undue emphasis on standardisation, which had its place, but should not be given too much prominence. They had adopted open bridge parapets universally, except in the case of railway bridges.

#### Steel Deck Asphalt

DR. LEE (R.R.L.), commenting on the earlier reference to having asphalt on a steel deck, asked if it were possible to take into consideration the stiffness of the asphalt itself under transient load in the design of the structure. It had been found that it did give quite an amount of stiffness to the passing vehicle.

Dealing with the problem of the settlement of the approaches to the abutments, he said he believed it was suggested that it had been overcome by the use of stabilised soil in some cases. But he thought that did not mean for the whole embankment.

Mr. Chettoe did not know whether the stiffness of the asphalt on a steel deck was taken into account in the design.

Mr. Adams did not think it had been proved sufficiently reliable. One had heard of cases in Germany of the cracking of the asphalt, and plastic yield.

Mr. Stott, on the question of using stabilised soil in the approach embankment, said that on a very heavily trafficked structure it was very undesirable to have to go back and perform remedial work on the road. Where that had been necessary the method used was to produce very weak concrete, the filling material for which was put through a mixer. It was not a cheap process, but it did guarantee, subject to a stable foundation, that the relative movement of the embankment to the abutment would not be serious.

#### CJB TO BUILD REGENT INSTALLATION AT CARDIFF

Regent Oil Company has awarded a contract to constructors, John Brown, Ltd., for the design, purchase of materials and construction of their new oil storage installation at Cardiff, excluding the supply and erection of the oil tanks.

This new installation will have tanker off-loading facilities and loading facilities for rail, road and coastal traffic for both black and white oils.

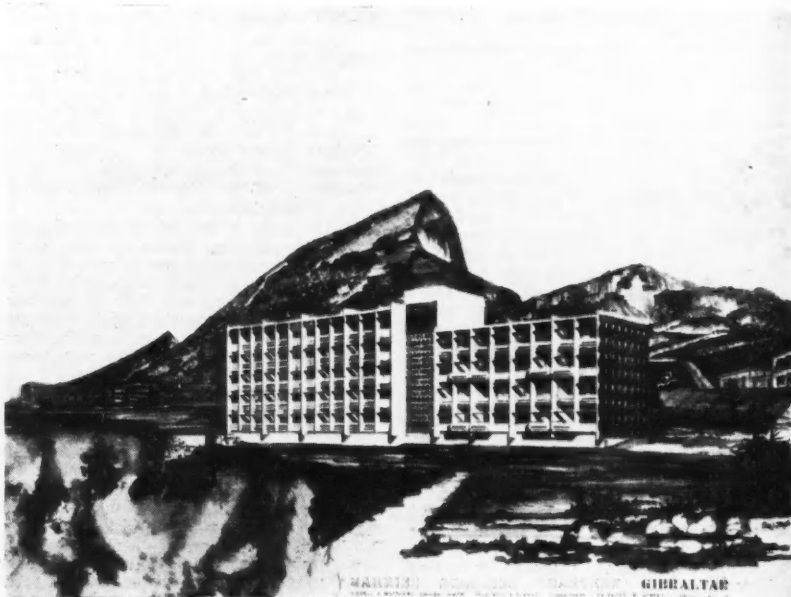
## CONTEMPORARY ARMY QUARTERS

**HUMPHREYS, LTD.**, London, have been awarded a £150,000 contract to build married soldiers quarters on the Rock of Gibraltar.

Work is now starting on the new building which will consist of 20 two-bedroom flats, eight maisonnettes (on two floors with private staircases) with three bedrooms.

The contemporary design of the block involves the use of concrete, structurally and decoratively, using different types of finish to give added interest. In particular, vertical and horizontal sun-breakers consisting of reinforced concrete fins will be used to control the glare of the sun.

A spokesman for the architects, Covell and Matthews, said that one of the most interesting features of the treatment of this design was its arrangement in relation to the steep face of the Rock. A bridge from the road will give access to the second floor and a ramp will give access to the ground floor, thus minimising the amount of stair climbing for any family living in the block. All the quarters will have soundproof floors. Another feature is the installation of unusually large rainwater storage tanks in the basements.



An artist's impression of the completed building



## AMERICAN AND CANADIAN HOUSES IN IDEAL HOME EXHIBITION "VILLAGE"

**T**HE "village" feature of the Daily Mail Ideal Home Exhibition which opens at Olympia on March 1, will this year comprise nine dwellings two of which will be of transatlantic design.

One is an all-American house designed by a special committee of the National Association of Home Builders' Research Council—a non-profit trade association serving the American building industry. The living area, exclusive of carport, is about 1,550 sq. ft. and the exterior materials used are masonry, wood, hard-board and asphalt roof shingles.

The house has a foyer, entered from a covered porch with, to the left, the bedroom wing and, to the right, the living area. The bedroom area contains three bedrooms with large closets and two full bathrooms. A centrally located formal living room area is the focal point of the interior design, with a dining room extension convenient to the kitchen and opening to the landscaped backyard.

The kitchen, which opens to the family area and informal dining area contains a cooking island with barbecue grill, counter-top range and suspended exhaust hood, refrigerator, built-in oven, dishwasher and sink with garbage disposal.

Adjacent to the side entrance from the carport is a washroom with its own "mud" closet, so that it is not necessary for children coming in from play to track across clean floors. Other design features include a clear span truss roof system, panelled exterior walls and gables, oak and vinyl tile flooring, aluminium windows and sliding doors and year-round air conditioning.

Room sizes comprise: Living room 12ft. 6in. by 26ft.; dining room 9ft. by 10ft.; kitchen 10ft. by 10ft.; family room 11ft. 6in. by 18ft. 6in.; bedroom 11ft. by 15ft. 6in.; bedroom 11ft. by 12ft. 6in.; bedroom 10ft. by 10ft.; carport 10ft. 10in. by 20ft. 6in.

The other house of transatlantic design is the British Columbia Lumber Manufacturers' Canada Trend house. This is on a split level plan and has an area of

1,360 sq. ft., excluding the garage. The framework is of Pacific Coast hemlock sheathed with Douglas fir plywood beneath the horizontal wall cladding of Western red cedar.

Striking feature of the house is the low-pitched roof and projecting eaves formed of 2in. nominal tongued and grooved cedar planking. This solid roof has a weather covering of three-ply felt with a mineral finish, laid over 1in. insulation board. One layer of the roof covering has an asbestos base.

The hall is entered through a covered porch; to the left there is a cloakroom and a boiler room which has direct access to the garage below, and on the right the hall opens directly into the dining room which is adjacent to the kitchen. Steps lead up to the sitting room, the balcony of which is seen from below in the hall; sliding doors, fully glazed, are used on this side and the continuous windows are full height from floor to ceiling. Cedar has been used for facing part of one wall and the sitting room floor is of polished maple.

A short stairway leads from the upper living area to the bedroom floor where there are three bedrooms, a linen cupboard opening from the landing and a large bathroom. Two of the bedrooms have built-in cupboards.

The Canada Trend House, built in the cost range of £4,500-£5,000 inclusive of central heating, decorative wood treatments and maple floor, has the following accommodation: Living room 25ft. by 11ft. 9in.; dining area 8ft. 9in. by 7ft. 9in.; kitchen 9ft. 9in. by 7ft. 9in.; bedroom 13ft. 9in. by 10ft. 3in.; bedroom 10ft. 9in. by 10ft. 3in.; bedroom 10ft. 3in. by 10ft.

### Other Dwellings

The rest of the "village" comprises: The New Ideal Homesteads' Queensbury bungalow; the Davis house; the Hallmark Homes Sussex bungalow; the Crouch house; the Berg Aldwick bungalow; and a pair of Unity Structures' houses.

The Queensbury bungalow is finished in facing bricks varied by cedar cladding. The lounge is lighted by windows on either

side of the fireplace and by a floor-to-ceiling picture window overlooking the garden. In the front are three bedrooms, the largest having wall-to-wall built-in wardrobes with folding doors. Electric panel fires are fitted in two of the bedrooms. The large garage has an up-and-over door at the front.

Room sizes are: Lounge 17ft. 6in. by 12ft.; kitchen 12ft. by 8ft.; hall 8ft. by 6ft. 6in.; dining recess 11ft. 4in. by 8ft.; bedroom 13ft. 9in. by 12ft.; bedroom 10ft. 6in. by 11ft. 9in.; bedroom 11ft. 9in. by 7ft.

The 1960 Davis house has an attractive contemporary elevation and is planned to provide a spacious three-bedroom dwelling with a flexible open-plan design on the ground floor. It has been planned as a labour-saving dwelling and incorporates electric underfloor heating in all rooms on the ground floor. It is constructed in two skins of 4½in. brickwork with a 2in. insulating cavity. The garage is an integral part of the house design and it has a paved flat roof for use as a sun terrace.

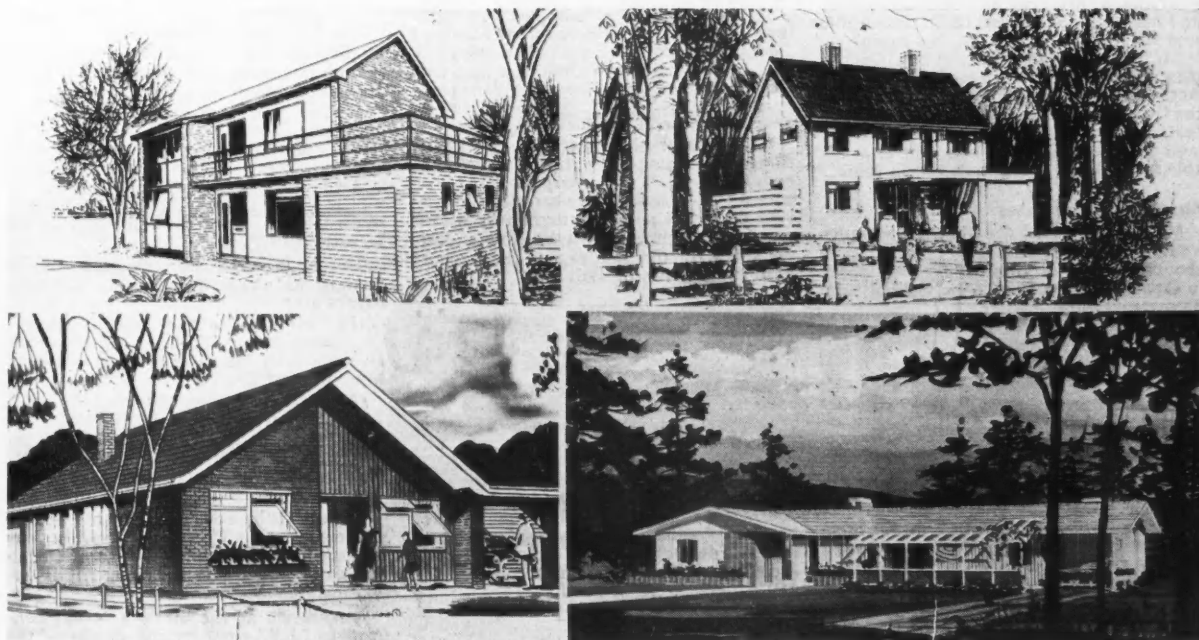
Room sizes are: Living room 18ft. 6in. by 12ft.; dining area 11ft. 11in. by 8ft. 9½in.; kitchen 11ft. 11in. by 10ft.; bedroom 18ft. 6in. by 11ft.; bedroom 11ft. by 9ft. 3½in.; bedroom 12ft. 5in. by 9ft. 0½in.

The Hallmark Homes Sussex bungalow is planned for a southern aspect. Cavity walls are constructed with 2in. Keymer Sussex stock bricks of a brown shade. The 2in. cavity is filled with pelleted fibre-glass and an inner leaf of Lignacite blocks. The roof is covered with Marley Marigold plain tiles. Radiation Duct air heating gives selective central heating to the entire bungalow.

Room sizes are: Lounge 18ft. by 12ft.; dining recess 9ft. by 8ft.; kitchen 14ft. 8in. by 9ft. 8in.; bedroom 12ft. by 12ft.; bedroom 12ft. by 10ft.

The house built by G. T. Crouch, Ltd., provides accommodation for two reception rooms, four bedrooms, kitchen, bathroom and downstairs cloakroom. It is constructed principally with brick elevation and with a panel of vertical boarding over the porch and garage. The roof is of

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Above: Left, the Davis Estates' house; right, the Crouch house.  
Below: Left, New Ideal Homesteads' Queensbury bungalow; right, the all-American house

*In Parliament*

## RIISING LAND PRICES: EFFECT ON LOCAL AUTHORITY HOUSING

**L**OCAL authorities, like private builders, are becoming increasingly concerned about the effect of rising land prices on their housebuilding activities. This was evident in the Commons last week when Mr. A. Henderson asked the Minister of Housing and Local Government whether his attention had been called to the effect of the Town and Country Planning Act, 1959, upon the purchase price of land, and what steps he proposed to take to enable local authorities to purchase land for housing purposes at reasonable prices.

Replied Mr. Henry Brooke: As I understand it, the right hon. and learned Gentleman is suggesting that local authorities should not pay the market value for land which they purchase for housing purposes. But it was a principal objective of the Town and Country Planning Act, 1959, to substitute this just requirement for the previous formula under which an owner might receive compensation well below the market value of the land.

Mr. Henderson: Is the Minister aware that, in 1955, twenty acres of land required by the Rowley Regis Borough Council for housing was valued by the district valuer at £5,000, and that, in November of last year, it was valued for the same purpose at £48,000? Does not the Minister consider that this will have a crippling effect on the efforts of local authorities, not only to provide housing but to provide playing fields for the country's youth?

Mr. Brooke: I could not make any comment on the case quoted by the right hon. and learned Gentleman without knowing the full circumstances and, in particular, without knowing whether any new planning permission in the interval had affected the value.

Mr. M. Stewart: Although the case quoted by my right hon. and learned Friend the Member for Rowley Regis and Tipton (Mr. Henderson) is particularly striking, is the right hon. Gentleman aware that it is only an example of a general tendency throughout the country that is worrying a great many local authorities and has been commented on in responsible journals? Will he look at this again?

Mr. Brooke: I hope that the hon. Gentleman does not wish to go back on the 1959 Act, which established market value as the basis for compensation. I must say that, as long as we hold to green belts, land in their neighbourhood that is available for building is bound to rise in value.

### Birmingham Expansion

Mr. Lindsay asked the Minister when he would be able to announce his decision about the City of Birmingham's proposal to expand into the Borough of Solihull and Bromsgrove rural district.

Replying, Mr. Henry Brooke said that this was a most important case which raised very complex issues and concerned more than 2,400 acres of land. He would announce his decision as soon as possible.

Mr. Lindsay: Does my right hon. Friend agree that large cities must not be allowed to expand all over the country, and especially in countryside designated as green belt? We confidently look to him to uphold this principle.

Mr. Brooke: In all courtesy to my hon. Friend, he will not tempt me into expressing any view on this difficult application until I am ready to announce a decision.

### Watling Street

The Minister told Mr. Matthews that in the near future constructional work would start on the widening of A.5 between

Atherstone and the Isolation Hospital; the contract for a new roundabout at Grendon would be advertised. These were the first of a series of schemes for the comprehensive improvement of the trunk road between Witherley and Fazeley, but he could not yet say when the Atherstone By-pass could be included in his programme.

Improved lighting to traffic route standards was already installed through Dordon and would be installed at the new roundabout in Grendon. No application had been made by the lighting authority for improved lighting on the remainder of this length of A.5.

### Street Lighting

In a written answer, the Minister of Transport, Mr. Ernest Marples, informed Lady Gammans that provided the street lighting was in accordance with the British Standard Codes of Practice, which did not specify colour or type of lamp, there was

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no evidence to show that confusion was caused by differences in colour or design.

As local authorities installing new lighting systems usually followed these Standard Codes of Practice, he did not think there was any need for legislation imposing uniformity.

### Lancaster-Penrith (Motorway)

Questioned by Mr. Holt about an extension of the motorway north from Lancaster to Penrith, Mr. Marples stated that consulting engineers were carrying out surveys of all the possible alternatives with a view to recommending a line for a draft scheme. He did not expect their report until the autumn of 1961.

### Merionethshire Hospital

Speaking in an adjournment debate on hospital facilities in Merionethshire, the Parliamentary Secretary to the Ministry of Health, Miss E. Pitt, said that work was expected to start later this year on new accommodation at Bronglais Hospital, Aberystwyth. The estimated cost was £872,000.

There were other developments, she continued. The Welsh Hospital Board were considering the need to improve facilities in the Wrexham area, and plans for a further development at Oakwood Park Mental Deficiency Hospital to provide for 450 patients were in hand.

The number of motor vehicles in use on the roads of Great Britain rose by over 700,000 last year to 8,606,047.

(Concluded from previous page)

dark brown pantiles and a continuous flat roof over the garage projection and the front door provides a deep porch and covered access to the garage itself.

Room sizes are: Dining room 12ft. by 11ft. 6in.; lounge 19ft. 7in. by 11ft. 6in.; kitchen 12ft. 9in. by 9ft.; garage 17ft. 4in. by 8ft. 6in.; bedroom 17ft. 2in. by 11ft. 6in.; bedroom 14ft. 6in. by 10ft.; bedroom 12ft. 7in. by 9ft.; bedroom 10ft. 1in. by 8ft. 6in.

The Aldwick bungalow built by E. and L. Berg, Ltd., planned by their architects with a view to development of the rural sites which they have recently acquired at Liphook in Hampshire, Angmering and Bognor in Sussex, has two double bedrooms, but the planning makes it possible for the roof space to be utilised to provide two further bedrooms if required. The price is from £3,995 including land, the extra cost of construction for the utilisation of the roof space being in the region of £1,500.

Room sizes are: Lounge 18ft. 5½in. by 13ft. 11in.; dining space 11ft. 11½in. by 11ft. 8in.; bedroom 15ft. 5½in. by 11ft. 5in.; bedroom 15ft. 8½in. by 10ft. 2in.; kitchen 12ft. 9in. by 12ft. 3½in.

Unity Structures' houses at the exhibition are a pair comprising Type 5701 which is a three-bedroom, four-person house and Type 5706 which is a three-bedroom, five-person house built on the crosswall principle. Either of these types can be built in terraces.

A special feature of the houses is that they never need outside painting, the Lustalite windows are plastic-faced, the Uniflow combined gutter, soffit and fascia and the downpipes are asbestos obtainable in self-colour or a special colour glaze which is applied at the factory; the remaining exposed timber is siliconised cedar.

Room sizes, Type 5701: Living room 15ft. 5in. by 11ft. 11in.; dining area 8ft. 4in. by 7ft. 5in.; kitchen 8ft. 4in. by 7ft. 5in.; bedroom 15ft. 8in. by 8ft. 9in.; bedroom 8ft. 9in. by 8ft. 6in.; bedroom 10ft. 9in. by 6ft. 4in.

Room sizes, Type 5706: Living room 14ft. 10in. by 11ft. 1in.; dining area 9ft. 1in. by 9ft. 1in.; kitchen 8ft. by 9ft.; bedroom 13ft. 2in. by 10ft. 3in.; bedroom 11ft. by 9ft. 2in.; bedroom 10ft. 3in. by 6ft. 10in.

### I.E.S. SUMMER MEETING

The Illuminating Engineering Society is holding its biennial summer meeting this year at Harrogate from Sunday, May 15, to Wednesday, May 18.

The programme includes a number of changes, the chief of which is the reduction of the number of formal papers to three and the devotion of one day to the study and discussion of technical subjects of wide topical interest which are now being considered by the technical committee of the Society.

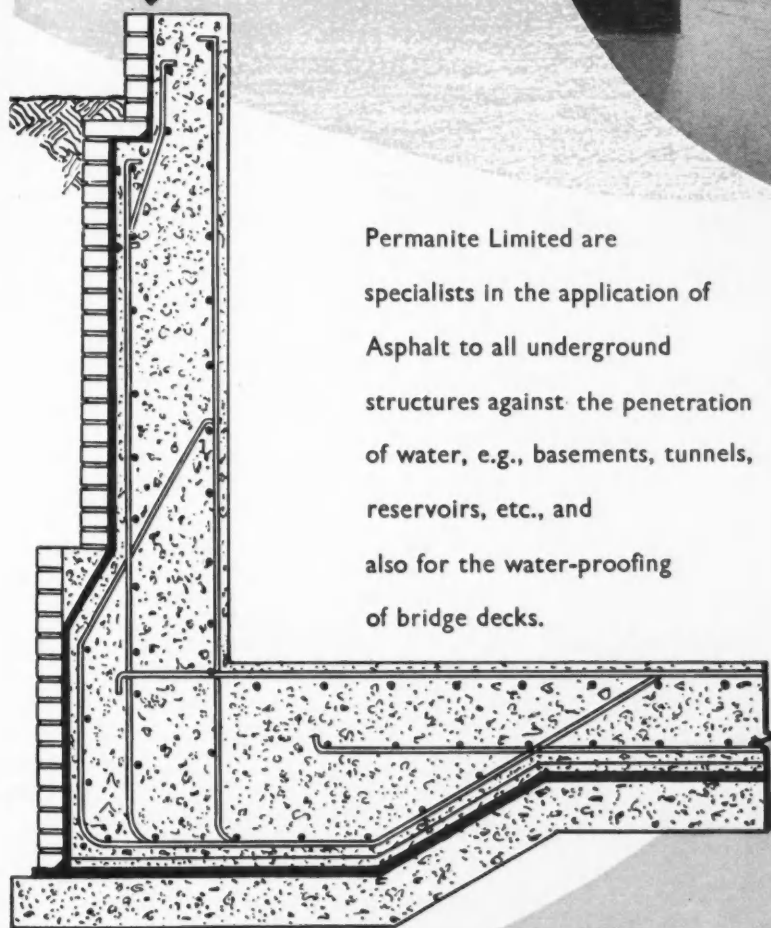
The trend of the programme is to look forward into the next few years. The three papers are:

- (1) "Progress in the field of electric lamps," by H. G. Jenkins of the research laboratories in the General Electric Co., Ltd.;
- (2) "Rationally Recommended Illumination Levels," by H. C. Weston.
- (3) "Plastics, Yesterday, Today and Tomorrow," by C. L. Child of the plastics division, Imperial Chemical Industries, Ltd.

Subject to be considered at the discussion meetings on Tuesday, May 17, include task analysis, luminance and glare, modelling and colour, industrial area floodlighting, maintenance and lighting calculations.

Attendance at the meeting is not confined to I.E.S. members and details of the meeting can be obtained from the Secretary, I.E.S., 32 Victoria Street, London, S.W.1.

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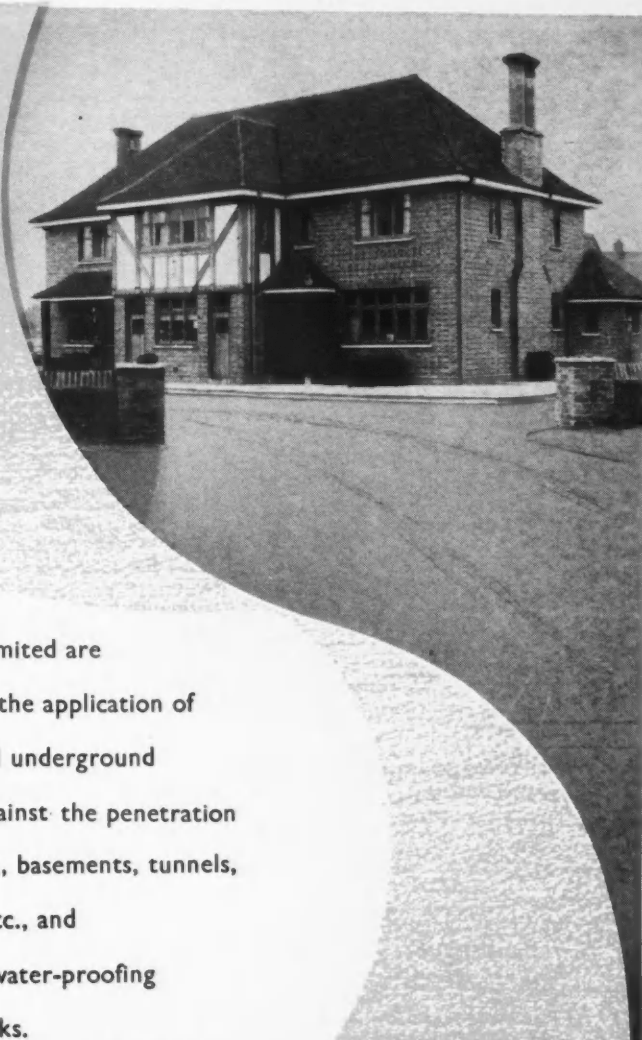
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# Slab Formwork 1936



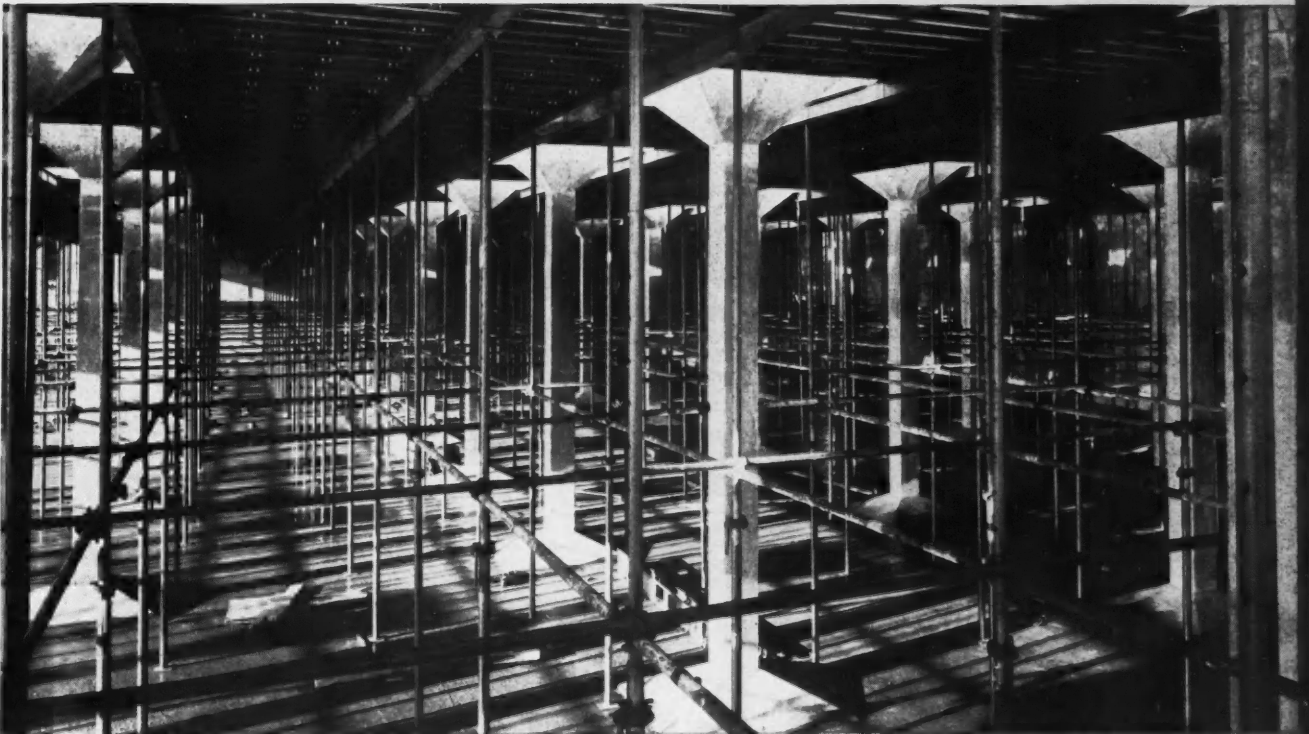
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Lower picture, " " " : **Herongate Reservoir, Essex.** General contractors: Messrs. W. & C. French Ltd.  
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# Slab Formwork 1960



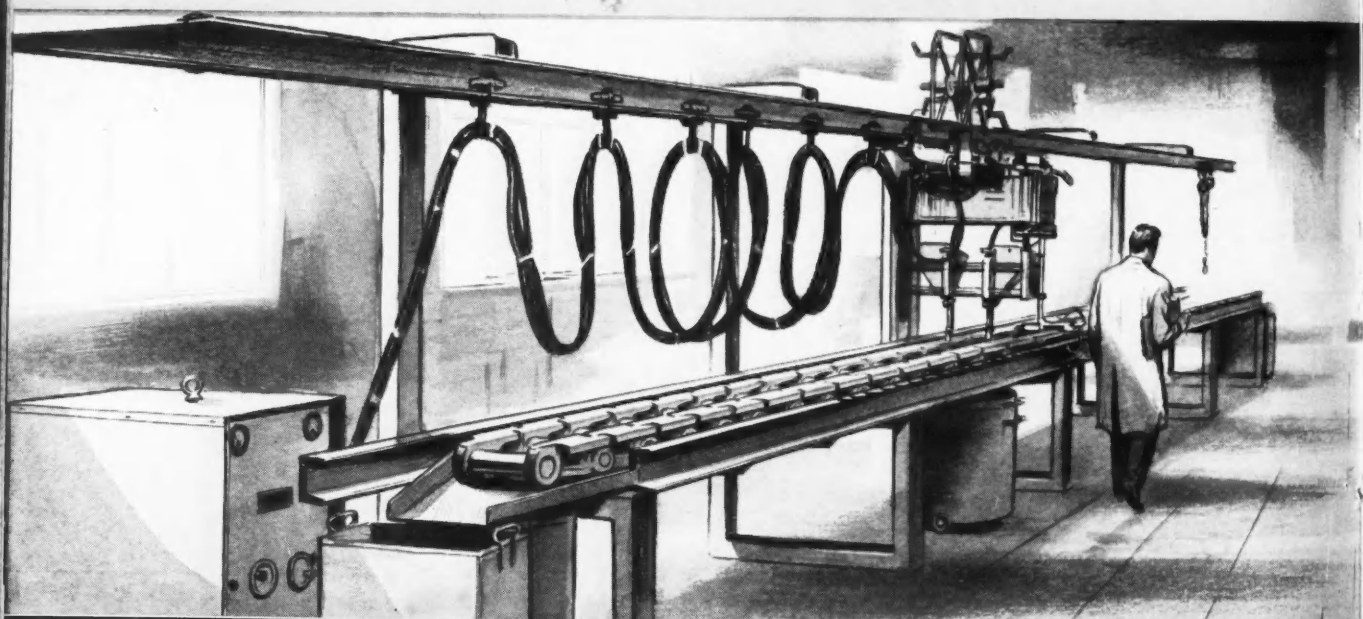
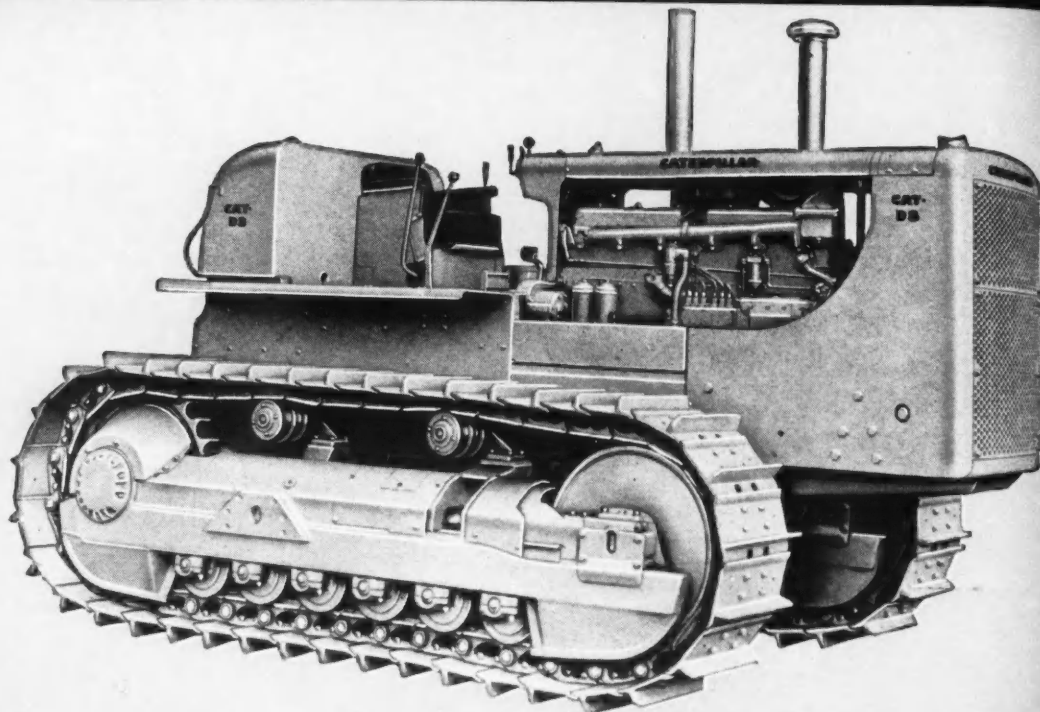
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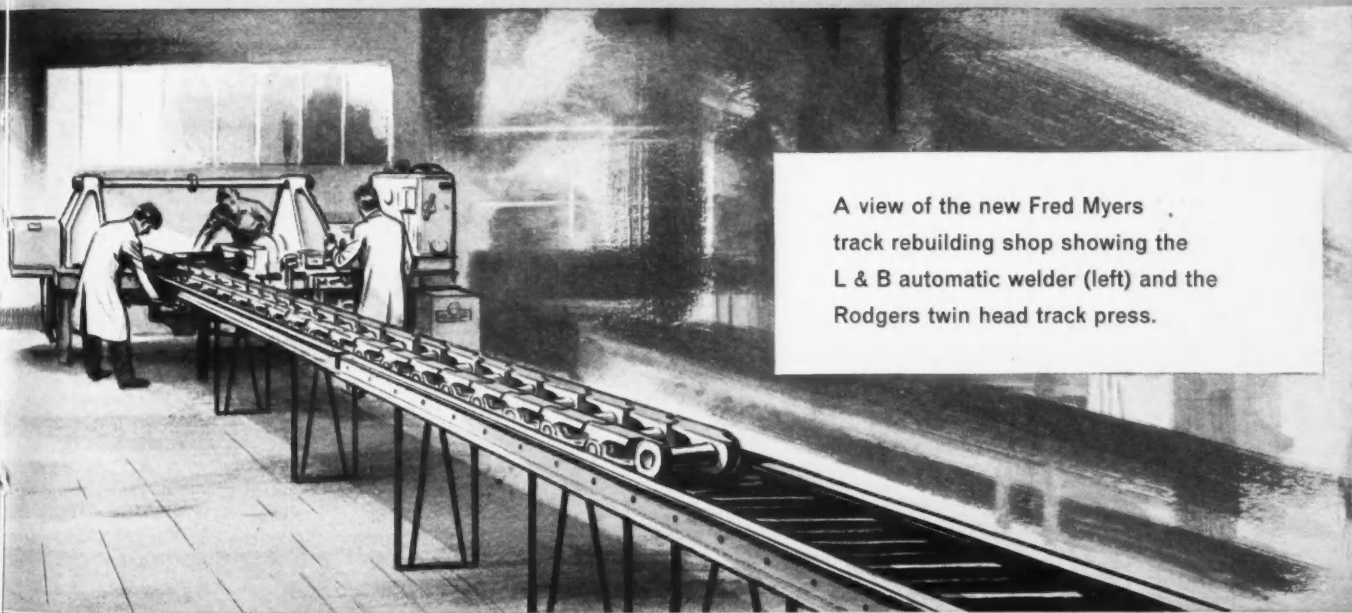


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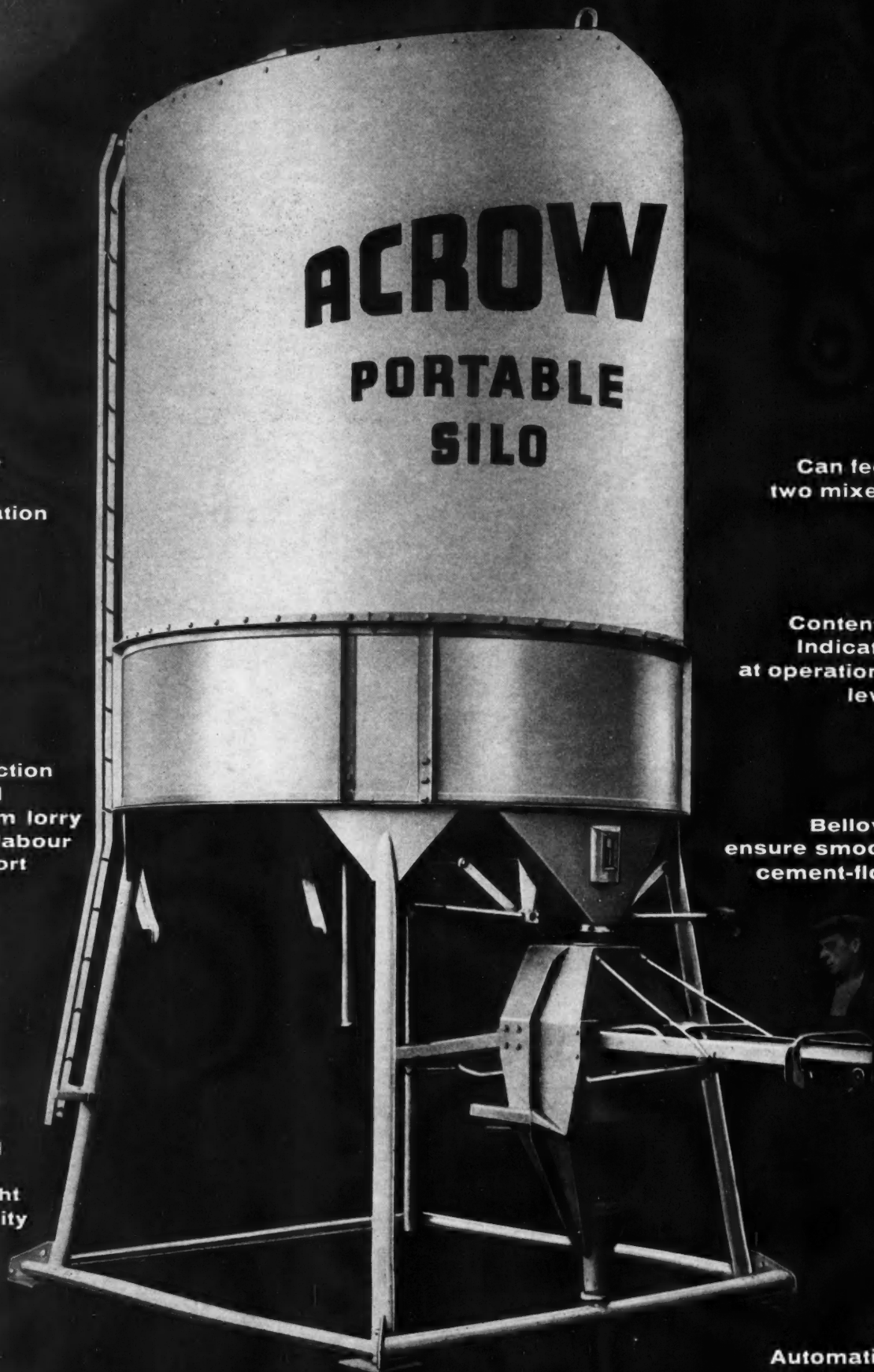
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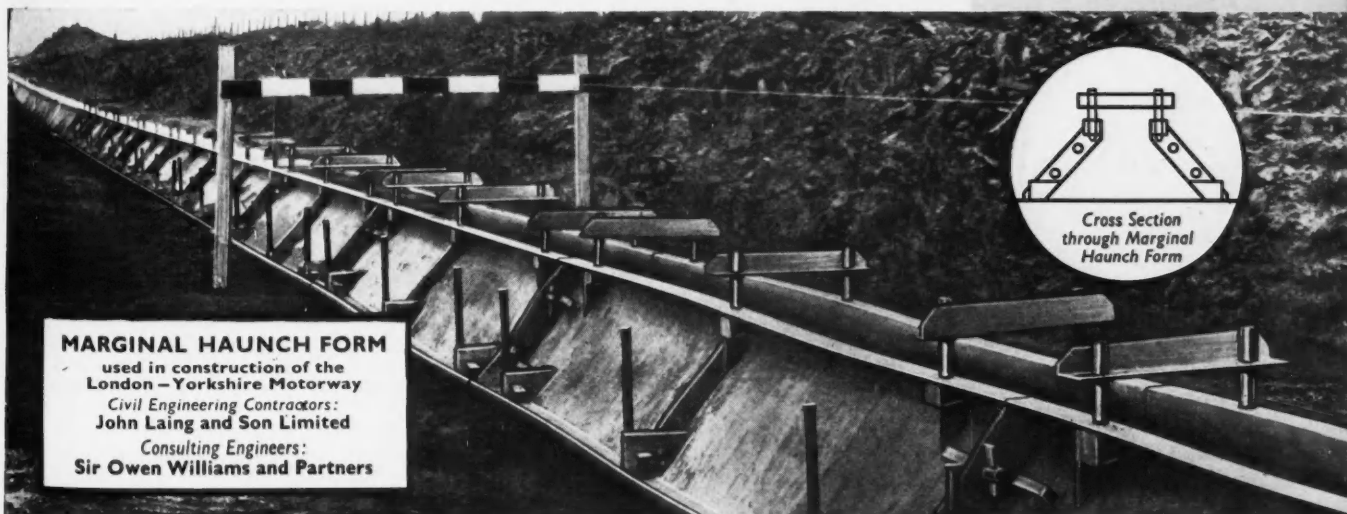
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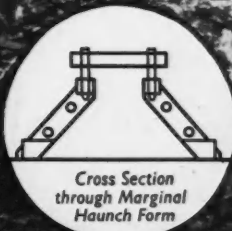
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# POST-WAR PROGRESS IN BUILDING TECHNIQUES

## Increasing Skill of Management

ACCORDING to Mr. Ronald W. Wates, director of Wates, Ltd., the increase in the skill of management has been the sphere in which the building industry has seen the most outstanding progress since the war.

Mr. Wates, who was addressing the Chartered Auctioneers and Estate Agents' Institute in London last week, said that this growth of management found its focal point in preplanning, which in itself was nothing new, but the thoroughness and intensity with which builders now pre-planned operations during the pre-construction stage had almost given the word a new meaning.

"The programme and progress charts which now adorn our site office walls have grown up from being devices designed to confuse site visitors and are now tools of management as vital as the trowel to the brick layer," he continued. "They symbolise the universal acceptance of the truth that complex operations cannot be executed economically without thorough pre-planning."

"As this thoroughness in pre-planning demonstrates the advance in the skill of management so well, I intend to go into a little more detail by describing briefly what it means to us."

"The task is carried out by a team which consists of our general manager, the area manager who will be responsible for the management of the job from the head office standpoint, the estimators who, having prepared the estimate for the job, have the most detailed knowledge of it up to that time, our chief engineer, our plant manager who will know what is available from our resources and from manufacturers if special equipment is required and, last but not least, our site agent or general foreman, who will be responsible for the day-to-day running of the job."

"The last-named is a most important member of the team, for during the pre-planning period he will be able to visualise the problems presented by the job and by eliminating them wherever possible, he will be able to get the bugs out of the building before construction starts. Difficulties long foreseen can be overcome much more economically at the planning stage than when they present themselves in the form of unpleasant surprises on the job with a lot of men standing about wondering how you are going to solve them."

### First Task

"The first task that confronts this team is to find out what we don't know about the building and that generally is plenty. For frequently, at the time when the contract is placed with us, a lot of drawings remain to be prepared. This is due mainly to the fact that many consents have to be obtained prior to the contract and that it is, therefore, too hazardous for the architect to have provided, by that time, more drawings than are necessary, as the local authority's requirements are in many cases unpredictable."

"In addition, of course, the architect has frequently been preoccupied with satisfying his clients' requirements which themselves may have been modified and changed quite a lot during the design period. I am quite certain that one of the hidden and often avoidable costs of building is in the difficulty which faces the architect in finding out what it is the client really wants."

"However, in general, the team's objective is to assess the present stage of design and in the light of this assessment to decide upon the methods that will be employed. Then, having settled upon the building method, to work out a detailed programme showing each stage of the building right through from excavation to handover and, from this programme, to make sure that drawings, materials, equipment, plant and

men will flow smoothly on to the site in accordance with this preconceived programme."

"When this team has finished its work, they will know, so far as the drawings permit, exactly in what way they will construct the building and to what degree the work can be mechanised. This implies that they will know what machinery and equipment will be required, what labour forces will be necessary and the number of man-hours that will be consumed in each operation. They will have advised the architect and engineer of the dates by which the various detailed drawings will be required and when the contracts must be placed for the lifts, heating equipment and all the other many nominated specialist sub-contractor items that are beyond the builders' direct control."

### Utmost Economy Aim

"All this pre-planning is aimed at securing the utmost economy once the building work starts and in ensuring that the maximum speed of construction is achieved from start to finish with the lowest possible labour force. This objective is only possible if the right materials coincide with the right labour and the right plant at the right time—no small task."

"This brings me to the increase in the skill of the managers themselves. The selection of building techniques for each job, the problems of plant selection and the resolution of the thousand and one other questions that present themselves, the control of an ever-growing team of specialist sub-contractors and the management of faster and faster building jobs all demand a team of skilled, highly imaginative, intelligent and flexible technicians."

"It has often been difficult to meet these demands, but I am glad to say that the post-war years have seen the introduction of many new training schemes by the technical colleges, trade associations and other bodies. The various courses are annually growing in number and popularity. They have supplemented our own internal training programmes and have been of enormous benefit. It takes eight or 10 years for the fruits of a management training programme to be reaped and with the perpetual need for increasing skill, whilst I cannot say that we are over the hump, I can at least say that the future is brighter than ever."

### Design

"Having touched on the increase in the skill of management and managers as demonstrated by pre-planning I want now to turn to the growing interplay that is emerging between the functions of design and construction. The importance of this cannot be over-emphasised. The gulf that existed between architects, engineers and builders before the war may have been all right when a six-storey building was considered high, but is certainly not all right today when the much more complex buildings of 15, 20 and more storeys in height are considered usual."

"It is one of the peculiar features of the building industry that, more often than not, the design of a project is completed without reference to the organisation that is going to build it. As a consequence, in too many cases, the contractor has little or no opportunity of making any suggestions about such matters as methods of construction, planning, cost control or the appointment of specialist sub-contractors although his experience in these matters may be invaluable."

"As things are, with much of our work obtained by competitive tender on a bill of quantities system, at the time of the acceptance of our tender we often have only a sketchy idea of the buildings we have committed ourselves to construct."

When we remember that planning, which includes such fundamentals as the selection of plant and, in the case of tall buildings, lifting plant in particular, it is clear that this situation produces many difficulties. With design and construction handled separately, it is often too late at the time of the placing of the contract, to integrate the two sufficiently well to secure the maximum building economy."

"An elementary example of this arises in those cases where a tower-crane is to be employed. If once it is decided to lift something, to reduce time and cost, it obviously pays to lift the largest sized component that is possible within the capacity of the crane. In turn this demands careful integration of precast concrete into the design. Especially is this the case today when reinforced concrete has largely superseded structural steel on grounds of economy and speed. The earliest collaboration, therefore, between designer and builder can often save the owner a great deal of money."

"Undoubtedly there is room for much progress in this sphere of designer/constructor collaboration. Many people on all sides of the industry are coming to realise that there are costly shortcomings in our present practice of splendid isolation. Much thought is being given to the problem, and recent years have produced an increasing number of examples where the building owner has obtained all the benefits of competition between firms of equal ability and at the same time has secured the advantages of complete contractor collaboration from the design stage through to completion."

### Plant

"Having dealt only too briefly with the integration of design and construction, I now turn to the third salient feature of recent years—namely, the improvements in builders' plant. Enormous progress has been made, but by far the most striking has been in the sphere of materials handling. This is not surprising, of course, when we remember that one of the early post-war building studies pointed out that 70 per cent. of the labour cost in building was attributed at that time to either the lifting or moving of materials."

"Undoubtedly the greatest and most dramatic advance has been in the introduction of the tower crane—a tool which, by its domination of the London skyline, is becoming very familiar to the general public."

### Conclusion

"Looking back over the past 10 years, I am certain that it was in response to the challenge of labour shortages and an inadequate supply of materials, that the building industry looked first to its own organisation and management. Profiting by its war-time experiences it has in fact developed a considerably higher skill of management than existed 10 or 15 years ago. In particular we have learned a great deal about the technique of pre-planning and, as a consequence of this, we have speeded up construction times and are able to maintain a much closer control of progress against schedule than ever before. The intense study that has been given to the art of management has brought considerable rewards and has produced one of the most significant features of post-war progress."

"We have learned, too, that there is tremendous scope in a much closer integration of design and construction methods. Admittedly, I have dealt almost entirely with multi-storey buildings and the impact of the tower crane, but the field is a wide one and I think it is now seen very clearly that in the ideal condition there should be complete team-work from the very commencement."

(Concluded on page 861)

## NOTTINGHAMSHIRE ROAD MAINTENANCE SEVERELY CURTAILED

### County Surveyor's Annual Report

IN his recently published report for 1958/59, Mr. Reginald A. Kidd, Nottinghamshire county surveyor, states that the grant allocation by the Ministry of Transport for maintenance and minor improvement for the financial year 1957/58 was substantially greater than the amounts made available in previous years. This led the council to hope that with the continued allotment of grant money of the same order, at least existing standards could be preserved.

The estimates for the year 1958/59 were prepared accordingly, says Mr. Kidd, but the grant allotted to classified County roads for that year was, in fact, almost £24,000 less than in the previous financial year, the smaller allocation being explained by the "pressing need to limit expenditure in the drive against inflation, and in order to prevent any curtailment of the programme of new construction and major improvement." The allocation was £297,000, representing a gross estimate of £494,666. On trunk roads, however, an amount of £175,000 was authorised, being £4,700 greater than that for 1957/58. As a result of the reduced allocation of grant money, the works programme approved by the Council had to be severely curtailed and much essential work deferred.

#### Most Discouraging

"When one considers the enormous growth of road traffic over the past few years and the rate at which it is anticipated it will increase during the next decade, any restriction of expenditure on maintenance is most discouraging," says Mr. Kidd. "Even with the completion of the Government's road development programme now in hand, and of those schemes forming part of the extended programme, the existing roads must continue to carry an increasing load of traffic far beyond their capacity. Industry generally is handicapped by an inadequate highway system; the resulting congestion and delays, and a shameful accident record, are not insignificant factors contributing to cost inflation, insidious in its action and damaging to the economic prosperity of the nation."

"Schemes of minor improvement carried

out under the Classification grant might often be more effective if they could be extended beyond the limits of the highway, but under the normal grant regulations of the Ministry of Transport work of this nature is not eligible for Classification grant; it must be the subject of a special authorisation as a major improvement. The Ministry have, however, relaxed this restrictive regulation to some degree and certain schemes can be considered for a special grant to cover only the element of major improvement, leaving the whole of the roadworks to be charged to the Classification account. Unfortunately, the Ministry insist that the cost of the major improvement element shall be met by a corresponding reduction in the Classification grant. This relaxation allows scope for the initiation of valuable schemes which might otherwise remain unfulfilled for many years, but inroads on the restricted funds made available for maintenance can be ill afforded."

Following are further extracts from Mr. Kidd's report:

#### Resurfacing

The mileage of roads surfaced with graded materials was 35.35 miles, which compares favourably with previous years. Thin carpeting, however, was carried out on only 16.18 miles of road, and this is well below the average of the last few years (for example, in 1957/58 over 40 miles of road were dealt with).

The effective life of a road surface can be prolonged appreciably by judicious surfacing, and the development of the thin asphalt carpet has provided an economical method of treatment combining an excellent running surface with a reasonably long life. Therefore, it is greatly to be regretted that lack of funds so severely limits the opportunities to extend the use of this type of thin carpeting. The resurfacing programme tentatively planned for 1958/59 had to be drastically revised, and in many places where thin carpets were intended surface dressing had to be substituted.

#### Surface Dressing

Whilst the length of roads surface dressed (151.42 miles) was greater by 13.98

miles than that dealt with in 1957/58, it is still very much less than the average of recent years and the general downward trend of this method of surface treatment continues. In fact, but for lack of funds compelling a reduction in the resurfacing programme with a corresponding increase in surface dressing, the length of roads surface dressed would have shown a considerable reduction on previous years.

#### Plant

During the period under review the following items were added to the heavy plant stock: Two Ferguson mowers; two 10/7 concrete mixers; three 2/3-ton S.W.B. motor lorries (diesel); three Markham trailers; seven Ferguson tractors; eight Ferguson loading shovels; five 28in. vibratory rollers; one petrol roller under three tons; one diesel roller 8-10 tons; one diesel roller under three tons; two Atkinson gritters; two Rolba snow blowers; three snow ploughs—carriageway; three low loading trailers; one Bray loading shovel; two motor scythes.

#### Labour Force

The maximum number of men employed by the Department was 496 and the minimum was 464, compared with a maximum of 494 and a minimum of 454 during 1957/58. Out of the total number of men employed 38 or 7.9 per cent. were over the age of 65 years, compared with 44, or 9.2 per cent., during 1957/58.

The improved situation reported last year was maintained and the labour situation remained reasonably stable. The services of certain selected employees of retiring age were extended, but to a slightly reduced extent consistent with the easing of the labour situation generally.

#### General

At the beginning of this report reference is made to the reduction of almost £24,000 in the grant allocated for the maintenance and minor improvement of classified County roads and the consequent curtailment of the works programme approved by the County Council in the Budget. It was inevitable that the cut in maintenance expenditure should be met by deferment of a number of carriageway resurfacing proposals. In consequence this year only 51½ miles of road were resurfaced which is the lowest figure for any year since 1950/51. This mileage can be compared with a figure of 73 miles in the previous year and 84 miles, the best ever, which was achieved in 1955/56.

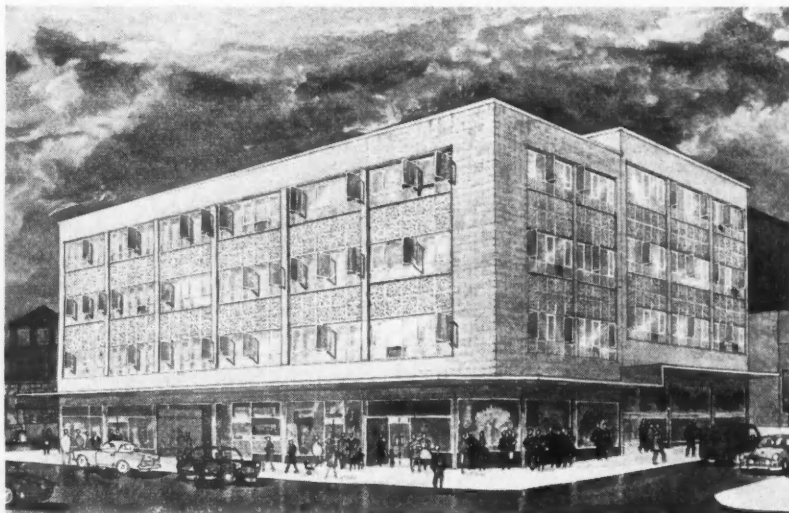
That is the dark side of the picture, but if we turn to major improvements the picture is very much brighter. Last year I was able to report a 50 per cent. increase in the volume of major improvement works, the total expenditure amounting to £325,000, approximately two-thirds of the work being carried out by contract. During the year under review this rate of progress on major improvement works has been substantially maintained, the total expenditure being very nearly £300,000. No less than 37 improvement schemes were in progress during the year and the value of the major improvement work carried out by the Department's direct labour force was £160,000.

### LIGHTING CONFERENCE FOR ARCHITECTS

Organised by the British Lighting Council, a one-day conference for architects is to be held at the Royal Institute of British Architects on April 27, 1960.

The theme will be "Is Daylighting Really Necessary," and the speakers will include Alister MacDonald, F.R.I.B.A., W. R. Stevens, B.Sc., M.I.E.E., F.I.E.S., and Dr. F. W. Floyd, consultant physiologist, Post Office. The chairman for the first session will be Sir Thomas Bennett, F.R.I.B.A.

Tickets for the conference may be obtained from the Secretary, British Lighting Council, 16-18 Lancaster Place, London, W.C.2.



An artist's impression of the new block of shops and offices now being built on the site of the recently demolished Old Palace Theatre, Halifax. The development has been designed by Richard Pickles and Partner, Halifax, for O. and C. Estates, Ltd., and is being erected by William Townson and Sons, Ltd., Bolton. More than a third of the ground floor shopping area is to be used as a supermarket, and the upper structure of offices will be U-shaped to permit the incorporation of a light well



## BREWERY BUILDING FEATURES TWO VARIETIES OF SHELL CONCRETE ROOF

A NEW bottling department, costing approximately £350,000, has recently been completed for Wilsons Brewery, Ltd., at Newton Heath, Manchester.

The building consists of three main structural sections separated by expansion joints—the processing and tank storage block, the bottling hall and offices and the loading bay.

The site was provided with a number of concrete roads; these consist of an 8in. thick concrete slab laid on a 9in. thick bed of hardcore.

### Tank Storage and Processing Block

The storage and processing block is a single-storey flat roofed structure 225ft. long by 115ft. wide, the roof being designed for 4cwt. per sq. ft. superimposed load to cater for possible future developments.

The columns, which rest on bases 8ft. 6in. below floor level, are arranged on an 18ft. by 21ft. grid. The in-situ concrete main beams span 18ft. and the precast concrete secondary beams which span 21ft. rest on the main beams at 6ft. intervals.

Expansion joints with double rows of columns and beams divide the 225ft. length into three.

The floors are 6in. thick in-situ concrete slabs surfaced with asphalt. The concrete roof slab is also finished with an asphalt surfacing beneath which is a layer of vermiculite for insulation purposes.

A small office block, 97ft. long and 30ft. wide, has been built on the roof adjacent to the bottling hall gable wall.

### Bottling Hall and Offices

The bottling hall consists of two column free halls 198ft. long by 85ft. wide, each to contain a complete plant layout. The halls are separated by a central aisle formed by two rows of columns 15ft. apart. This aisle is for the use of fork-lift trucks.

The floors throughout the bottling room are of 6in. thick in-situ concrete with an asphalt surfacing. Each of the halls has a concrete barrel roof with a clear headroom of 29ft. at the centre of each vault. The roofs are supported on arch ribs, at 23ft. centres; these ribs are 5ft. by 1ft. in section

and they are prestressed on the Magnel-Blaton system.

The shells are 2½in. thick and are built to an internal radius of 65ft. Roof light openings, which have been given insulation by the use of lay lights, are provided part way up the slopes and the shells are insulated with vermiculite screed and covered with felt roofing.

tion and the use of insulating material on the roofs.

### Loading Bay

The loading bay is 87ft. 6in. wide by 250ft. long. It is roofed by seven cambered concrete shells of 28ft. 9in. chord length, supported by prestressed edge beams 36in. by 6½in. in section.



One of the bottling halls

Single-storey offices and workshops are arranged along each side of the bottling hall. These are of beam and column construction and are flat roofed.

The process gives rise to a certain amount of steam and it is partly for this reason that the general shape of the bottling hall roof was chosen and was also the reason for a plenum system of ventila-

The shells are 2½in. thick and built to an internal radius of 25ft. Openings 6ft. wide by 45ft. long are provided in the shell crowns for sky lighting. The shells were insulated with vermiculite screed and covered with felt roofing.

The floor of the loading bay is of 6in. thick in-situ concrete with a 2in. granolithic surface.

General contractors for the scheme were Holst and Co., Ltd., Manchester.

### SAFETY FILM PRODUCED BY BIRMINGHAM GROUP

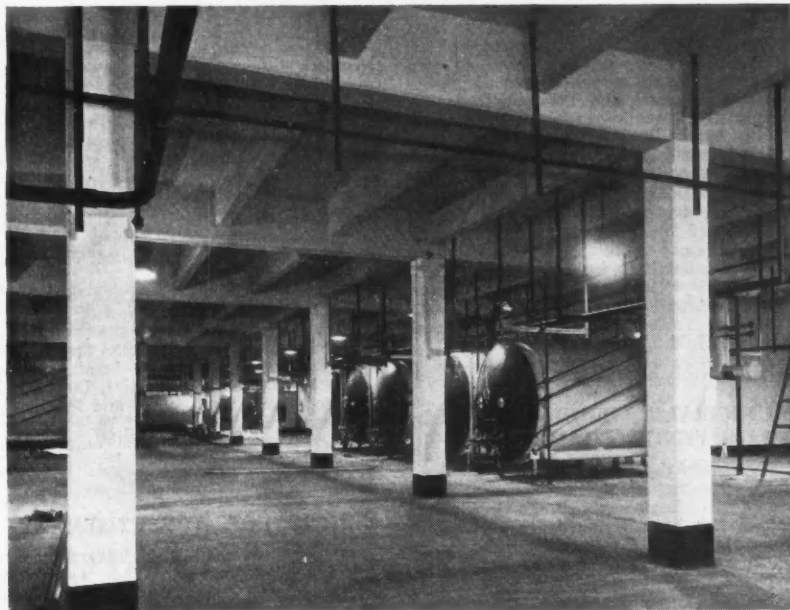
A 16mm. film in colour, devoted to safety in the building industry, has been produced for the Birmingham and District Industrial Safety Group.

Entitled "This Nettle, Danger," the film is of a documentary nature with a commentary by Eamonn Andrews. It includes scenes of a site where safety is a first consideration, followed by another where accident prevention is conspicuous by its absence. The visit to this second site is climaxed by an accident, consisting of a realistic fall of an operative from high scaffolding with all its attendant tragedy.

Copies of the film are available from the Birmingham and District Industrial Safety Group, 71 Broad Street, Birmingham. 15.

### CHARTERED SURVEYORS' ANNUAL DINNER

The Secretary of State for Foreign Affairs, Mr. Selwyn Lloyd, will be the principal guest at the annual dinner of the Royal Institution of Chartered Surveyors which will be held at Grosvenor House, London, W.1, on Tuesday, March 8.



Interior of the tank storage and processing block



### £36M. CAR PLANTS AT MERSEYSIDE

#### Ford and Standard Proposals

**P**ROPOSALS have been announced by Ford Motor Co., Ltd., and Standard-Triumph International to spend millions of pounds on new factories and developments at Merseyside.

Marking the beginning of a further substantial expansion of car production, Ford will erect a new plant, to produce 200,000 cars annually, on a site at Halewood, near Liverpool.

The works will consist of an integrated car body plant, including stamping, body assembly, paint, trim and final assembly operations, and will employ about 8,000 people. In the first instance factory buildings exceeding 2,000,000 sq. ft. in area will be erected and equipped at a cost of more than £25m., and as these first stages are completed, there will be further developments.

The major part of an £18m. expansion scheme to be carried out by Standard-Triumph will be located at Speke, where it is planned to erect a new car body plant estimated to cost £7m. This factory will have an area of 300,000 sq. ft. and will be situated on a 104-acre site alongside the press shop buildings of Hall Engineering which are currently being acquired by Standard. A 250,000 sq. ft. extension will be erected to these press shop facilities, and a further £4m. will be spent on progressive development of the Merseyside site during the next three years.

The company also proposes large expenditures on the provision of new plant and equipment at existing factories and rebuilding of administrative buildings in the Midlands.

#### Rootes' Scottish Factory

A factory designed to employ about 3,500 workers is expected to be erected at Linwood, near Paisley, for the Rootes Group. The scheme is still subject to further negotiations with Government departments and other bodies.

### ARCHITECTURAL COMPETITION FOR DUNBARTON OFFICES

Dunbarton County Council are holding an open architectural competition for the design of new county offices to be built at Crosslet.

There will be two stages in the competition, the six successful competitors in the first stage taking part in the second. Each of these six will receive £400, and the premium for the design placed first will be £1,500.

The assessors are Mr. F. R. Wylie, F.R.I.B.A., Glasgow; Prof. J. H. Napper, F.R.I.B.A., Newcastle upon Tyne; and Mr. James Mottram, A.R.I.B.A., Edinburgh, President of the Royal Incorporation of Architects in Scotland.

### INCREASES IN BUILDING WAGES

The National Joint Council for the Building Industry have approved a recommendation that the standard rate for craftsmen in the building industry should be increased by 2½d. per hour and the rate for labourers by 1½d. per hour. The Joint Council agreed to recommend to its constituent employer and operative bodies that the increases should come into effect on Monday, April 18.

### B.R.T.A. DIRECTOR TO BE APPOINTED

The British Road Tar Association is to appoint a full-time director. Applications for the position are invited by the Association in an official announcement appearing elsewhere in this issue.

### TENDERS SOON FOR £500,000 BIRMINGHAM UNDERPASS

**T**ENDERS will be advertised shortly for the construction of a new underpass road, 42ft. wide and 1,200ft. long, on the northern outskirts of Birmingham, to carry north-south traffic on A.34 underneath the east-west traffic on the Outer Ring Road. The surface of the underpass road will be heated to prevent the vehicles slipping on the gradients, which are 1-20 at the south end and 1-15 at the north end.

On either side of the underpass road will be a 20ft. carriageway at the existing street level, for local traffic. These will be connected to the Outer Ring Road by means of a roundabout passing over the underpass road, and a system of pedestrian subways will be provided underneath the roundabout.

At the northern end of the works, the underpass road and the two carriageways will pass over the railway tracks of the London Midland Region at Perry Barr Station by means of a widened railway bridge. This portion of the works will embody a new booking office for the station, and British Railways are proposing to develop each side of the bridge with a row of shops.

The total cost of the civil engineering works will be about £500,000, part of which will be met by a grant from the Ministry of Transport. The works will be carried out under the authority of Sir Herbert J. Manzoni, C.B.E., M.I.C.E., city engineer and surveyor of Birmingham, and of Mr. A. N. Butland, M.I.C.E., chief civil engineer of the London Midland Region, British Railways. Sir William Halcrow and Partners are the consulting engineers.

### TAY ROAD BRIDGE WILL COST ABOUT £4M.

Tenders for the borings for the proposed Tay Road Bridge are due in this month and the results of the borings are expected about mid-May.

A spokesman of the consulting engineers, F. A. MacDonald and Partners, said recently that a full report of the scheme, including the bridge's line and cost, should be available for Parliamentary approval in the spring, after which it would be possible to start work.

The bridge, which will be 7,400ft. long and multi-spanned, is now estimated to cost about £4m.—£1m. more than the original estimate.

### COMMISSION TO STUDY BRIGHTON SCHEMES

Three schemes submitted to Brighton Borough Council for redevelopment of part of the town's sea front are to be studied by the Royal Fine Art Commission, before a final selection is made by the town planning committee.

A total of 16 schemes were put forward for redevelopment of the 11½-acre site at the foot of West Street, from which the three schemes were short listed. The planning committee have been authorised to begin negotiations with the three developers—Bernard Sunley Investment Trust, Ltd.; the Taylor Woodrow Group; and Copthall Holdings, Ltd.

### MUNICIPALS' BIENNIAL SCHOOL VENUE CHANGED

Because of the great number of applications, the venue of the Institution of Municipal Engineers' Biennial Spring School has been changed from Holborn Town Hall to the Connaught Rooms, Great Queen Street, London, W.C.2.

The school, to be held on March 2 to 4, has been organised by the Metropolitan Eastern, South-Eastern and South Midland Districts of the Institution.

### Late Construction News

**NORFOLK BRIDGE TENDERS.**—Seventeen tenders, ranging from £96,149 to £144,620 have been submitted to Norfolk C.C. for construction of the Haddiscoe Cut Bridge on the A.143. The lowest is by A. Monk and Co., Ltd., Stamford, Lincs. The bridge will be a three-span steel and concrete structure about 220ft. long by 37ft. wide. Included in the contract will be deep piling, approach embankments up to 30ft. depth and 600yd. long, roadworks, river works and demolition of a bascule bridge.

**BLACKPOOL FLATS.**—Blackpool B.C. have accepted the £109,300 tender of R. Fielding and Son (Builders), Ltd., Stanhope Road, Blackpool, for erection of 48 one-bedroom flats and 36 bed-sitting room flats at Mereside estate.

**"NO FINES" HOUSES.**—A contract worth £206,978 has been placed with George Wimpey and Co., Ltd., to build 118 "No Fines" houses for Pontypridd U.D.C.

**\$5M. CANADIAN OFFICES.**—Taylor Woodrow (Canada), Ltd., have been awarded a \$5m. contract to build a new head office near Toronto, for Fords of Canada. The building will be seven storeys high, with a floor area of over 180,000 sq. ft. Allward and Gouinlock, Toronto, are the architects.

**£170,000 WAREHOUSE.**—A £170,000 warehouse is to be built at Wibsey, Yorks., for Grattan Warehouses, Ltd., by George Wimpey and Co., Ltd.

**BASILDON HOUSING.**—Tenders from selected contractors are due in early next month for the erection of 306 dwellings at the Vange housing areas 5a and 5b, for Basildon Development Corporation. Plans are by William Crabtree, 8 Robert Adam Street, London, W.1, and quantities by E. C. Harris and Partners, Lynton House, Tavistock Square, London, W.C.1.

**15-STOREY FLATS.**—Subject to Ministry approval, Newcastle upon Tyne City Council are to accept the £1,358,715 tender of George Wimpey and Co., Ltd., for building 413 two-bedroom flats and 217 one-bedroom flats. The flats will be contained in one 15-storey block at Pottery Bank and six blocks of the same height at Scotswood Road (Hawes Street) redevelopment area. Completion is scheduled within 22 months.

**CWMBRAN SCHOOL TENDERS.**—Monmouthshire C.C. are inviting tenders from a short list, due in at the end of this month, for the erection of an infants' school at St. Dials, Cwmbran. Plans are by K. L. Davies and W. E. Hole, 41 High Street, Newport, and the quantity surveyors are W. T. Hills and Co., 3 Castle Street, Cardiff.

**THAMES LOCK RECONSTRUCTION.**—The River Thames lock at Brentford, Middx., is to be reconstructed, for British Transport Waterways, by John Howard and Co., Ltd., at a cost of £100,000. The work involves constructing a new lock and then rebuilding the old one. It will be carried out in tidal water, with a rise and fall of 16ft.

**MIDDLESEX SCHOOL.**—The tender of C. J. Sims, Ltd., 2 Victoria Street, London, S.W.1, at £140,800, has been recommended for the erection of a Roman Catholic secondary school at Park Road, Ashford, Middx.

**LONDON FLATS AND OFFICES.**—Bids are due in shortly for the erection of a block of flats and offices on a site at 35-38 Portman Square, 11-15 Portman Street and 28-30 Portman Mews South, London, W.1, for Portman Square Properties, Ltd. The architects are Ronald Ward and Partners, 29 Chesham Place, London, S.W.1, and the quantity surveyors, Veale and Sanders, 19 Hanover Square, London, W.1.

### ERNEST DOE ADVERTISEMENT

It is regretted that in the advertisement of Ernest Doe and Sons, Ltd., appearing on page 803 of this issue, the title of the public works contractors is wrongly given as Flynn Excavators, Ltd. This should, of course, read Flynn Excavations, Ltd.

## HEXAGONAL THEATRE TO BE BUILT AT CHICHESTER

**Reinforced Concrete Structure Will Cost £70,000**

CHICHESTER City Council, at their recent meeting, approved the granting on lease of a site at Oaklands Park, on the outskirts of the city, to a newly formed Trust for construction of a festival theatre.

The Trust—the Chichester Festival Theatre Trust—is launching an appeal for £70,000 which, it is estimated, will cover the cost of erection of the building, together with architectural fees, etc. If the response to the appeal is good it is hoped to start work in May and have the building completed by the early summer of 1961.

The architects for the project are Phillip Powell and Hidalgo Moya, 30 Great Smith

Street, London, S.W.1. Their design for the theatre, which will seat about 1,500, is based on a recent movement in favour of the return to the character of the Elizabethan theatre, where the audience virtually encompassed the players and where the stage was of a more simple nature than the modern proscenium stage.

Consequently a hexagonal-shaped building has been evolved, measuring 117ft. across and about 34ft. high to the eaves. The aim has been to express as clearly as possible the internal planning and design of the building; hence the tiered auditorium encompassing the stage is clearly seen by showing its underside raised on slender columns with a glassed-in space below

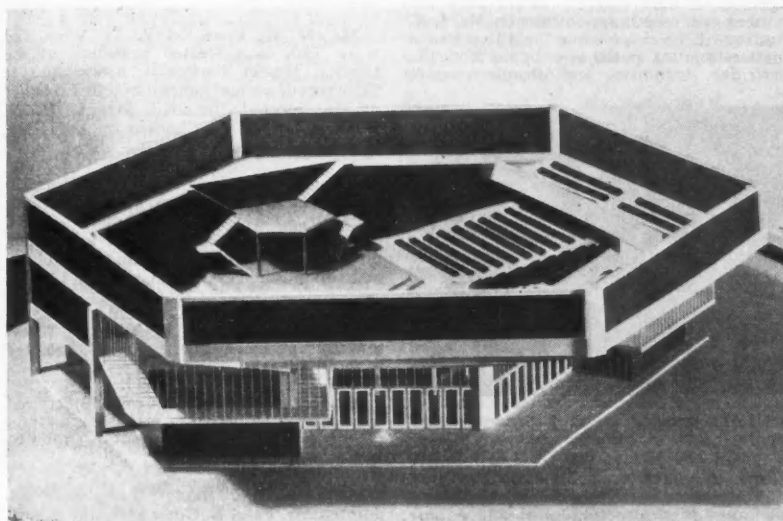
forming the entrance and foyer. The main roof is of low pitch and is not visible from the ground, but the centre of the roof, being of a steeper pitch is visible. For structural and ventilation reasons, it is in the form of a lantern.

Initially the building is being constructed as cheaply as possible, and the promoters' intention is subsequently to improve the building if necessary and to add to it. For example, it is envisaged that the restaurant, if any, bars and changing rooms might in the first instance be housed in tents, which would be taken down at the end of each season. In later years, the intention would be to replace these with permanent buildings, extending westwards from the base of the auditorium.

The supporting framework of the building consists of reinforced concrete columns, with a permanent, light-coloured, exposed aggregate finish, giving a stone colour and texture requiring no maintenance. The infilling walls are of glass in timber frames, or where solid, of rendered building blocks. These infilling panels will be painted a dark neutral colour, or if more money is available at a later date will be finished in a maintenance-free material such as bronze sheeting.

The visible underside of the tiered seating is of precast concrete, painted a light colour. The main roof surface, not visible from the ground is of built-up roofing felt. A light-coloured mineral roofing felt will be used for the lantern forming the centre of the roof, but this might be replaced later with metal sheeting such as matt anodised aluminium.

The roof structure consists of three steel cables, stressed to about 140 tons each, supported on the exterior reinforced concrete frame of the auditorium and supporting a steel lattice ring beam over the middle of the auditorium. Light steelwork and timber form the infilling of the roof, the timber being exposed internally. The overhanging portion of the auditorium is partially supported by the roof cables. Other consultants involved in the project are: Charles Weiss and Partners, structural engineers, 1 Wandsworth Road, London, S.W.8; Peter Jay and Partners, electrical engineers, 16 Gloucester Place, London, W.1; Davis, Belfield and Everest, quantity surveyors, 9 Ashley Place, London, S.W.1.



A model of the proposed theatre

## PRESTRESSED DEVELOPMENT GROUP'S COUNCIL ELECTIONS

THE eleventh annual general meeting of the Prestressed Concrete Development Group was held recently at the Institution of Civil Engineers.

The results of elections to the Council of the Group were announced at the meeting and the Council for 1960 will be as follows:

President—C. W. Hamilton (McCall and Co. (Sheffield), Ltd.); vice-president—A. J. Harris (A. J. and J. D. Harris); immediate past-president—W. B. Sykes.

Engineers—D. A. Andrews (South-Eastern Gas Board); F. M. Bowen (Scott and Wilson, Kirkpatrick and Partners); and A. Goldstein (R. Travers Morgan and Partners).

Architects—A. G. Jury (City Architect and Planning Officer, Glasgow); A. Kirkwood Dodds (The Pre-Stressed Concrete Associates); and E. D. Mills (Edward D. Mills and Partners).

Specialist engineers—R. T. Betts (McCall and Co. (Sheffield), Ltd.); R. F. T. Kingsbury (Stressed Concrete Design, Ltd.); and J. N. Lowe (The Pre-Stressed Concrete Associates).

Contractors—J. W. A. Ager (Richard Costain, Ltd.); J. A. Derrington (Sir Robert McAlpine and Sons, Ltd.); and R. B. Hill (Demolition and Construction Co., Ltd.).

Product manufacturers—J. Barratt (Concrete, Ltd.); S. V. Gardner (Anglian Build-

ing Products, Ltd.); and A. G. W. Martin (The London Ferro-Concrete Co., Ltd.).

Manufacturers of prestressing and reinforcing steel—C. F. Brereton (Richard Johnson and Nephew, Ltd.); K. G. Hann (The Somerset Wire Company); and K. W. Longbottom (British Ropes, Ltd.).

Chief technical officer—A. W. Hill (Cement and Concrete Association); secretary—P. Gooding (Cement and Concrete Association).

## INSTITUTE OF BUILDING ESTIMATORS

The intermediate and final examinations of the Institute of Building Estimators will this year be held on Thursday, Friday and Saturday, May 26, 27 and 28, 1960, at the Royal Society of Health, 90 Buckingham Palace Road, London, S.W.1.

Applications to become registered students and to sit the examinations should be made to the headquarters of the Institute, 10 Cromwell Place, London, S.W.7, before April 30, 1960.

Have you completed and posted your Readership Survey postcard?

## ANNUAL REGIONAL BUILDING CONFERENCE

"Building and Society" is the title given to the 11th Annual Regional Building Conference to be held at Reading on June 11, by the South Regional Council for Further Education.

Subject of the morning session will be "The Influence of Society on Building," and of the afternoon session "The Influence of Building on Society."

Also at Reading on the same day the sixth Annual Regional Building Crafts Competitions for apprentices attending technical colleges in the Southern Region will be organised in the following subjects: Brickwork, carpentry and joinery, painting and decorating, plastering and plumbing, and a special competition for woodcutting machinists.

## 276,674 HOUSES COMPLETED LAST YEAR

During the year 1959, 276,674 permanent houses were completed in Great Britain (compared with 273,695 in the same period of 1958), of which local authorities were responsible for 122,165 and private builders for 150,708.

Houses under construction at December 31, 1959, totalled 266,632—local authorities 148,663 and private builders 112,656.

## Men and Movements

**WATES, Ltd.**, have announced the appointment of **Mr. Norman Wakefield** to the position of contracts manager, to be specially responsible for Wates contracts undertaken for Span Developments, Ltd., He joined the company in 1946 as an indentured student, and has been working as a site agent for the last four years. A second contracts manager has also been appointed. He is **Mr. Frank Childs, L.I.O.B.**, who has been the deputy to the chief quantity surveyor and estimator for several years. Mr. Childs joined the estimating department of the company in 1946.



N. WAKEFIELD

**Mr. P. B. Maufe**, chairman of The Rigby Portland Cement Co., Ltd., has retired from the board after over 50 years' service with the company. His brother, **Lieut.-Col. F. W. B. Maufe, M.C., T.D.**, has succeeded him in that office. **Mr. Anthony Sharpley, Mr. Oliver Marriott and Mr. Ambrose Maufe**, all of whom have been with the company in senior executive positions for a number of years, have been appointed directors.

**Sir Walter Worboys** has been appointed a director of the Associated Portland Cement Manufacturers, Ltd., and British Portland Cement Manufacturers, Ltd.

**Mr. R. E. F. Sykes**, associate member of the Institution of Works Managers, has been appointed general manager of Griffin and George (Laboratory Construction), Ltd. Mr. Sykes succeeds **Mr. A. E. Lambert**, who has retired from the company.

**Mr. T. H. B. Whiting** has been appointed to the board of Aveling-Barford, Ltd.

**Mr. T. M. Moore**, senior representative of Jensen and Nicholson, Ltd., is travelling by air during February, March and April, to British Honduras, British Guiana, Jamaica, Bermuda and other Caribbean Islands.

**Mr. G. M. Warren**, sales director of Aveling-Barford, Ltd., flew to Canada recently on a week's visit to the company's Toronto subsidiary, and for talks with Canadian distributors. The post of European sales manager for the Aveling-Barford group of companies has been filled by the appointment of **Mr. J. M. Gifford**, who is already on his first tour in the Scandinavian countries. Mr. Gifford joined Aveling-Barford a year ago.

**Mr. G. Fettes Waddington**, export manager of Wolf Electric Tools, Ltd., is making an extensive business tour of Australia, arriving by air at Sydney on February 21. Throughout his three months' visit his headquarters will be at Wolf Sales Pty., Ltd., Arthur Street, Homebush, Sydney, as associate company of which he also is a director.

**Neale, Wright and Co., Ltd.**, have announced two recent appointments: **Mr. J. K. Boden** will be responsible for all technical matters relating to the sales of the Tornado cartridge hammers and Bosch electric



J. K. BODEN

E. J. SHURVINTON

hammers and accessories. **Mr. E. J. Shurvinton** will operate in the East Midlands area as senior sales representative in the full range of contractors plant and equipment.

**Causeway Reinforcements, Ltd.**, have appointed **Mr. T. C. Leach** to be their representative in the five Midland counties for their surface armouring and multi-purpose trestles. The company have also appointed **Mr. C. T. Withy** as their representative in Lancashire and Yorkshire.

**Mr. S. R. Woolcock**, Fellow of the Institute of Builders, has taken a post with **James Drewitt and Son, Ltd.**, Bournemouth, as contracts supervisor.

**Tyresoles, Ltd.**, have announced the appointment of **Mr. R. Bartram** as manager to take charge of the development of all Tyresoles "off-the-road" services. Mr. Bartram joined the company in 1938 as a sales representative, and after the war became area sales manager, London, later taking the post of personal assistant to the managing director. In 1952 he was appointed a director and sales manager of Tyresoles Services (East Midlands), Ltd.



R. BARTRAM

**Mr. W. G. Venn**, of W. G. Venn and Sons, Ltd., was elected president of the London Master Plasterers Association at their recent annual general meeting. Other officers elected included **Mr. J. H. G. Wickens**, of E. E. Cheeseman and Sons, Ltd., as vice-president.

Among the passengers recently embarking on the "Queen Mary" for New York were **Mr. Charles S. French**, chairman and managing director of W. and C. French, Ltd., and **Mr. Ambrose Congreve**, chairman of Humphreys and Glasgow, Ltd.

**Mercantile Credit Co., Ltd.**, have announced that **Mr. K. R. Minskip**, representative at Leicester, has been appointed branch manager.

**Mr. S. H. Ireland, B.Com., B.Sc.**, has been appointed assistant managing director of the Consolidated Pneumatic Tool Co., Ltd.

**Ransomes and Rapier, Ltd.**, have appointed **Mr. Peter B. Gorst** assistant general sales manager. Mr. Gorst was previously export manager, and he is succeeded in this post by **Col. E. W. Hadfield**.

The new group projects engineer for the Frederick Braby group of companies is **Mr. Charles N. Freeston**. **Mr. J. F. Nash** has been appointed chief engineer of Auto Diesels, Ltd., a member of the group.



Recent visitors to the United Kingdom were more than 100 overseas distributors for International construction equipment. Their programme included three days of conference sessions at Harrogate, practical demonstrations on the Great Yorkshire Showground, and a tour of International Harvester Company's works at Doncaster. Among the visitors were **Mr. Paul Molnar** from International Harvester Export Company, Chicago, and **Mr. E. Drott**, president of Drott Manufacturing Corporation of Wausau



## BUILDING RESEARCH STATION

## DIGEST No. 131

## External Rendered Finishes

**N**ATIONAL Building Studies Bulletin No. 10 is a comprehensive guide to the design, application, performance and repair of external renderings and a British Standard code of practice on the subject is in course of publication. Defects are still common, however, and inspection usually reveals that they result from some transgression of basic principles. The following notes are therefore intended to re-emphasise a few main points with particular reference to new work where a rendering is applied for its appearance or to resist rain penetration.

**Appearance**

Choice of texture and colour of rendering is not entirely a matter of aesthetics. Some finishes present greater difficulties than others, in obtaining and maintaining a uniform appearance, and the designer needs to know what changes in appearance may occur over the years.

A forecast of the appearance of a particular colour or texture when new can often be formed from trial panels or other buildings finished in the same way, but it is not always possible to examine a building of similar exposure, environment and design, on which a given finish has been exposed for a number of years. Moreover, while appearance is determined by the finishing treatment, choice of finish is not independent of the background material or the protection required.

The main types of finishing treatment are as follows:

**Pebble-dash or dry-dash**—a rough finish in which small pebbles or crushed stone are thrown on to the freshly applied final coat of mortar and left exposed.

**Roughcast, wet-dash, or (Scottish) harling**—a finish in which the final coat containing a proportion of fairly coarse aggregate is thrown on as a wet mix and left rough.

**Scraped finish**—a finish in which the final coat of mortar, when it has stiffened, is scraped with a steel straight-edge, a board studded with nails, or some other form of tool, to give a roughened surface.

**Textured finish**—a finish having a patterned surface produced by treatment of the freshly applied final coat with various tools.

**Smooth (floated) finish**—a finish in which the surface is made level and smooth with a float.

**Machine-applied finish**—a finish in which the final coat is spattered or thrown on by a machine. The roughness of the texture is determined by the material used and the type of machine.

Smooth finishes tend to suffer surface crazing and they may be patchy in appearance because of variations in surface texture that cannot be avoided in floating; they rarely retain a satisfactory appearance. Mixes rich in cement and those containing fine sands increase the risk of crazing, and so does finishing with a steel trowel.

Pebble-dash and roughcast are the least liable to change in appearance over long periods. Scraped finishes and some textured finishes in ordinary grey cement also change very little in appearance.

Dirt from atmospheric pollution shows up more on white and pale coloured finishes than on the natural grey cement finish. Dirt also appears worse on the heavily textured finishes than on the more finely textured and scraped finishes or on the smooth ones. On the other hand, when the design and detailing of the wall is such as to produce rain streaks on the surface, the appearance of smooth finishes is more badly affected than that of textured finishes.

Where atmospheric pollution must be anticipated, the problem is perhaps best resolved by using the darker shades of a fairly lightly scraped or textured finish, with adequate detailing to prevent rain runs. When periodic painting is envisaged, smooth finishes will probably be required and then careful detailing to prevent rain runs is even more important.

A defect that often spoils the appearance of coloured finishes is that due to the formation of a white film of calcium carbonate on the surface (lime bloom), which makes the rendering look as if the colour has faded. The effect is more marked under slow drying conditions than with finishes applied in warm dry weather; it becomes less noticeable with ageing. Subject to the atmospheric conditions mentioned above, it is advisable to use only pale colours on which the white film is less conspicuous.

**Protection against rain penetration**

A solid wall of bricks or blocks, however impermeable the units themselves may be, is liable to let rain penetrate—mainly through hair cracks between mortar and unit. Dense units may be worse than porous ones. With the more porous units, there is a more uniform absorption into the face of the wall as a whole so that penetration through the wall at the weak points is likely to be less and may in fact occur only under much more severe conditions.

Under normal conditions, a rendered finish of any type, properly applied, and even though porous itself, will prevent moisture passing into the hair cracks. Cracks in the rendering, however, may pass enough water to penetrate the wall. Where conditions are very severe, as where a wall will be exposed to driving rain and wind for long periods, at least the first coat of the rendering should be as rich in cement as the strength of the background will allow (see table); this requirement is satisfied by a continuous spatter dash coat used as the first of three coats.

In exposed coastal areas, the pebble-dash

and roughcast finishing treatments have advantages in shedding water or in distributing it over the surface, but textured or scraped finishes may also be satisfactory.

Whatever the conditions of exposure it is important that the building be properly detailed so that moisture cannot reach the backing; this is particularly important where the backing materials contain salts. The design details which are of particular significance in this respect are as follows:

**Eaves protection**—a wide eaves greatly reduces the amount of rain falling on a wall, particularly in buildings of one or two storeys.

**Parapets**—all parapet walls are subject to more severe exposure conditions than the external walls on which they stand. Details for design have already been mentioned in Digests Nos. 11 and 68. Materials used in the construction need careful selection and bricks with a high sulphate content or having a low frost resistance should not be used.

**Sills**—all sills should have effective drips designed to throw water clear of the wall. This is not only important on the underside of the sill; the ends of the sill also should be carefully detailed to avoid rain streaks on the adjacent wall surface.

**Flashings**—all cornices, projecting ornamental work and exposed top edges of a rendered wall should be covered with durable flashings to throw the water clear and to prevent it from getting behind the rendering.

Lack of care with any of these items is likely to result at least in the rendering being disfigured by rain streaking, and at worst in the complete failure of the rendered finish.

Exposure conditions can be classified as severe, moderate, or sheltered. Severe conditions are found on hill sites or near the coast or where the buildings project well above their neighbours. Conditions may be regarded as moderate where the walls are partially protected from the weather by overhanging eaves or by other buildings of a similar height; such conditions are usually found in towns and suburban districts. Sheltered conditions obtain in areas of moderately low rainfall where there is also protection similar to that described for moderate conditions.

**Mixes for external renderings**

The design of a mix for an external rendering should take account of the factors already discussed and the nature of the backing to which it is to be applied.

(Concluded on next page)

**MIXES FOR EXTERNAL RENDERINGS**

**Mix:** Type A. 1 part Portland cement:  $\frac{1}{2}$  part lime: 4 to 4 $\frac{1}{2}$  parts sand by volume  
Type B. 1 part Portland cement: 1 part lime: 5 to 6 parts sand by volume  
Type C. 1 part Portland cement: 2 parts lime: 8 to 9 parts sand by volume

Masonry-cement:sand mixes may be used as alternatives to Type B and C mixes; the proportions should be in accordance with the manufacturers' recommendations.

Hydraulic-lime:sand mixes in the proportions 1 part hydraulic lime:2 to 3 parts sand by volume may be used as alternatives to Type C mix.

Where alternative sand contents are shown for the cement:lime:sand mixes (e.g., 5-6 or 8-9 parts) the higher of the sand contents (e.g., 6 or 9 parts) should be used if the sand is well graded, but the lower sand content (e.g., 5 or 8 parts) should be used if the sand is coarse or uniformly fine.

The mixes indicated in bold type are to be preferred in most circumstances.

The type richer in cement is to be preferred when it is applied under winter conditions. The mix for a following coat should never be richer in cement than the one to which it is applied.

Background	Finish	Undercoat(s)		Final coat	
		Severe exposure	Moderate or sheltered exposure	Severe exposure	Moderate or sheltered exposure
Dense, strong and smooth (a)	Wood-float	A or B	A, B or C (c)	As undercoats	
Moderately strong, porous (b)	Scraped or textured				
	Roughcast	A or B	A or B		
	Dry-dash	A	A		
Moderately weak, porous	Wood-float	B	B or C		
	Scraped or textured				
	Roughcast	B	B		
	Dry-dash	A or B	A or B		
No-fines concrete	Wood-float	A or B	A, B or C	A or B	B or C
	Scraped or textured				
	Roughcast	A or B	A or B	A or B	B or C
	Dry-dash	A	A	A	A

- (a) Spatterdash used to provide a key on dense, strong and smooth backgrounds should consist of 1 part Portland cement:1 $\frac{1}{2}$  to 2 parts coarse sand by volume.  
(b) Spatterdash used to overcome uneven suction on moderately strong and porous backgrounds should consist of 1 part Portland cement:2 to 3 parts coarse sand by volume.  
(c) When metal lathing or wire netting is fixed to a dense, strong and smooth background to form a key, the first undercoat should not be a Type C mix.

## International Construction

### AUSTRALIAN ROADS PROGRAMME

A COMPREHENSIVE road programme, drawn up by the authorities of all Australian states, involves spending hundreds of millions of pounds during the next 10 years.

In New South Wales the Main Roads Department plans to spend more than £A320m. on the construction of at least 1,000 bridges and the widening and strengthening of busy sections of the principal highways.

Victorian authorities propose building duplicated roads on main sections of busy highways, such as the Prince's Highway and the Western Highway. Over ten years the Victorian Government plans to spend more than £A200m. on maintenance and reconstruction work. The Queensland Government's target is more than £A160m.

Widening of main roads in suburban areas of South Australia is one of the major improvements planned in that State. South Australia's estimated expenditure on roads over the next decade is more than £A100m.. Western Australia plans to reconstruct major sections of its vast trunk routes and Tasmania aims to build bitumen surfaces on all gravel roads over the years.

### CUBITT ASSOCIATES EXTEND TO WESTERN CANADA

Formation of a subsidiary company in Western Canada has been announced by Anglin-Norcross Corporation, Ltd., the Canadian Associates of Holland & Hannen and Cubitts, Ltd., London.

Based on Vancouver, the new company will operate throughout Canada's Western Provinces, so that Anglin-Norcross can now offer a complete coast to coast construction service.

Mr. J. Eric Harrington is president of Anglin-Norcross Corporation, Ltd. Lord Ashcombe, chairman of the board, is also chairman of Holland & Hannen and Cubitts, Ltd. Mr. W. G. Anglin has been appointed vice-president and general manager of Anglin-Norcross Western, Ltd.

### TORONTO OFFICES COMPLETED AHEAD OF SCHEDULE

A \$2M. 12-storey office block, 801 Bay Street, in the centre of Toronto, has recently been completed 10 weeks ahead of schedule by Taylor Woodrow (Canada), Ltd.

Work took just over 12 months and, from the first to the twelfth floors, a rate of a floor a week was maintained, mainly through a severe winter (internally heated polythene envelopes were used to protect the working areas).

The photograph shows a view of the main entrance. The building is of reinforced concrete. The structural columns are faced with precast stone of exposed aggregate of fine texture. Installations include a high velocity air-conditioning system and there is both a separate and a basement garage.

The architects were Peter Dickinson Associates; mechanical engineers, Frost Granek and Associates; structural engineers, M. S. Yolles Associates, all of Canada.



### £A22M. OIL REFINERY EXPANSION PROGRAMME

NEW industrial projects in New South Wales costing approximately £A22m. were recently announced by the chairman of the Shell companies in Australia, Mr. J. R. C. Taylor.

The main item in this expenditure will be a new £A17m. catalytic cracking plant, primarily for the production of motor spirit, which is to be erected at Shell's Clyde Refinery. On completion, this new unit will be the biggest of its kind in Australia and one of the biggest in the world.

Mr. Taylor said that the plant will be erected by Australian labour, together with a small number of overseas technical personnel. Australian materials will be used wherever possible.

Associated with the project will be the construction of new port facilities at Gore Bay costing approximately £A1m., as well as a pipeline for pumping oil from Gore Bay to Clyde, a distance of about 12 miles, and part of which will be under water. The pipeline alone is estimated to cost £A800,000.

### PUMPING PLANT FOR SOUTH AFRICA

A contract for high-lift pumping plant, to be installed in extensions to the River-ton pumping station of the Municipality of Kimberley, South Africa, has been awarded to W. H. Allen, Sons and Co., Ltd. Queens Engineering Works, Bedford, through their agents, Dowson and Dobson, Ltd., Johannesburg.

The plant comprises an 18in./16in. horizontal spindle, three-stage, double-suction series pump driven by a 1,250-h.p. electric motor, together with switchgear, valves and pipework.

Taylor Woodrow (Nigeria), Ltd., have been awarded a contract valued at over £200,000 to resurface two miles of the Marina promenade, Lagos, and to provide seven lay-bys, for the parking of about 300 cars.

(Concluded from previous page)

For this purpose solid background materials may be classified as follows:

Dense, strong and smooth materials, which have low porosity, little suction, and surfaces that afford no mechanical key (for example, dense clay bricks or blocks or dense concrete).

Moderately strong and porous materials, which have relatively high suction and generally good mechanical key (most bricks and blocks and some medium-density concretes).

Moderately weak and porous materials such as lightweight concretes, aerated concretes and some bricks of relatively low strength. With these it is particularly important that the rendering should be weaker than the background.

No-fines concrete forms a class by itself; it provides an efficient mechanical key for rendering, and the absence of capillary paths avoids trouble arising from excessive suction.

The table gives types of mix recommended for the various types of finish, exposure conditions and background.

### Proprietary mixes and aerated ("plasticised") mortars

Factory-made rendering mixes, requiring only the addition of water on the site, are available for undercoats and finishing coats. These mixes, which should preferably correspond to the mixes given in the table for the relevant conditions, should be used in accordance with the manufacturers' instructions. One advantage of their use, especially for final coats, is that it is easier to obtain uniformity of colour and texture than with mixes prepared on the site.

Rendering mixes containing proprietary masonry cement, to which sand is added on the site, can be regarded as alternatives to the 1:1:5-6 and 1:2:8-9 cement:lime:sand mixes. The manufacturers of masonry cements suggest the proportions of sand to be added, and their instructions should be followed generally.

There is widespread use of aerating agents or "mortar plasticisers" in brickwork mortar but there is not yet sufficient long-term experience with aerated cement-sand mortars used as rendering mixes for any recommendations to be made. Trials so far made at the Station have sometimes shown less satisfactory resistance to rain penetration than that obtained with cement-lime-sand mixes. The performance of a plasticised mix would appear to be specially sensitive to the technique used in its application. Surface crazing has been observed on aerated mortar renderings, including both cement-sand mixes incorporating mortar plasticisers and masonry-cement-sand mixes.

There are also many proprietary materials sold as waterproofing and water-repellent additives for incorporation in rendering mixes. Their use may be justified in special circumstances but it should be remembered that the efficiency of a rendered finish depends primarily on its freedom from cracking.

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### SCOTTISH LIME AND LIMESTONE ASSOCIATION

At the annual general meeting of the Scottish Lime and Limestone Association held in Edinburgh recently the following office-bearers were appointed for 1960:

Chairman: J. Y. Lind (Wm. Lind and Co., Ltd., Elderslie, Renfrews.).

Vice-chairman: W. H. H. Beeton (Keir and Cawder, Ltd., Kirkmichael, Perth.). Secretaries and treasurers: Russell and Dunlop, 20 Castle Street, Edinburgh, 2.

Executive committee: A. C. Gordon (Northern Agricultural and Lime Co., Ltd., Aberdeen); A. M. Faichney (Cults Lime, Ltd., Springfield, Fife); E. M. Cleland (Bairds and Scottish Steel, Ltd., Glasgow); R. H. Bathgate (W. T. Bathgate (Lime Works), Ltd., Gorebridge, Midlothian); M. I. Macmillan (James Reid and Co. (1947), Ltd., Lugton, Ayrshire).

## F.B.I. INQUIRY INTO INDUSTRIAL TRENDS

### Continued Expansion Anticipated

**A**N outstanding feature of the Federation of British Industries latest inquiry into industrial trends is the upward trend in anticipated capital investment over the next year.

In October for the first time the increase in future investment in plant and machinery outweighed the decreases; this trend has continued more strongly. In this February return a rise is now, for the first time, reported in plans for industrial building over the year ahead.

The rising trend in capital investment intentions is confirmed by the replies to the new question asking about orders received for capital equipment items. Counting only the firms to which the question was relevant the percentages become 48 per cent. up, 40 per cent. same, and 11 per cent. down. The upward balance is nearly as marked as for new orders of all kinds.

Optimism about the general business situation continues to be pronounced. (N.B. Returns were made before the threat of a railway strike.) The trends on output, the rate of new orders (both home and export) and the length of order books continue to rise a little more strongly than four months ago. But the trend in export orders still lags behind home trade.

The higher output has been achieved both by higher employment and by more overtime; with rather more emphasis on the former.

A few more firms (53 per cent. compared with 50 per cent. in October) report that they are working "to capacity" (i.e., to a satisfactorily full level of operation). Many of those previously working to capacity in this sense have managed further to increase their output from new capacity or fuller or more efficient changes.

#### Labour Recruitment

Labour recruitment is becoming more difficult, though not to a marked degree: one-third of informants say it is harder than four months ago compared with one-quarter in October.

Stocks of raw materials and the amount of work in progress have continued to rise.

There is no evidence that this exceeds what is necessary to support the higher rate of production. In October stocks of finished goods appeared to be falling; the current inquiry suggests that this decline is stopping.

Unit costs appear to be hardening; but the great majority (70 per cent.) of respondents report no change in the general level of their selling prices.

The general picture is of continued expansion and of sustained optimism for the future. There is little sign that inflationary pressures have yet begun to operate, though the hardening labour position is a warning for the future.

### EXPERIMENT IN TUBE CONSTRUCTION

London Transport announce that they have placed two contracts for constructing experimental lengths of tube tunnel in connection with the £55m. scheme for the Victoria line underground.

The work will be carried out in the Finsbury Park area by Kinnear Moodie and Co., Ltd., and Edmund Nuttall, Sons and Co. (London), Ltd. Their contracts are valued at £191,000 and £209,000, respectively. The former will provide a concrete-lined tunnel and the latter one lined with cast-iron segments.

The twin tunnel, approximately a mile in length, is being constructed to enable experience to be gained in the use of new methods of tunnel lining and construction for tube railways. No complete new tube across London has been built for some 50 years and the experimental lengths of tunnel will provide important information of the suitability of various construction methods for use in any future tube building.

The tunnels are being constructed on the alignment of the proposed Victoria line at Finsbury Park. If the Government authorises the building of the Victoria line, this section of tunnelling would be incorporated in it.

## SAFETY AND THE INDIVIDUAL

### Birmingham Group's Annual Dinner

**"SAFETY** in the last resort depends on the individual worker and the individual employer," stated Mr. Peter J. M. Thomas, Parliamentary Secretary to the Ministry of Labour at the recent annual dinner of the Building Contractors Section, Birmingham and District Industrial Safety Group.

Mr. Thomas drew attention to an estimate by the National Federation of Building Trades Employers that the total cost of accidents in the building industry was not less than £20m. a year, or about seven shillings a week for everyone employed in the industry. It was, he went on, difficult to reconcile this figure with the view that was sometimes expressed that accident prevention was a costly business and that a safe site was an expensive one.

Both the Federation and the Ministry were convinced that safe practice and efficiency went hand in hand. The Ministry believed that the surest and most effective method in cutting down the number of accidents from the existing figure of about 15,000 a year, was by training people in safe practices.

Those on the spot must know what the risks were, and how they should be met. "They must," Mr. Thomas said, "develop an informed safety consciousness. In this the foreman is the key man, and if he can be properly trained in safety a great step forward will be taken in ensuring the safety of workpeople on building sites generally."

Referring to a visit that he had made earlier to the Birmingham Safety Training Centre, he announced that plans now existed for the establishment of further centres in Scotland and elsewhere.

Other speakers at the dinner included Alderman John H. Lewis, Lord Mayor of Birmingham; Mr. A. B. E. Lovett, H.M. Superintending Inspector of Factories, Midland (Birmingham) Division; and Mr. P. B. Whitehouse, deputy chairman of the Building Contractors Section.

### BRANCH OFFICE OPENED

John De Bremaeker and Partners, consulting civil and structural engineers, London, W.C.1, have opened a branch office at Royal London House, Lansdowne, Bournemouth, under the direction of Mr. J. W. Perks, M.I.Struct.E.

(Concluded from page 853)

"Perhaps I could best sum it all up by quoting from our own experience of the trend of costs of multi-storey flats. In the past five years building materials and building labour have advanced in cost by something over 20 per cent. Despite this advance in the index, in actual fact the cost per super. foot of the flats we are building today is within a few pence of the cost of five years ago. It can be said, therefore, that the influence of higher management skill and the better understanding of the inter-play between construction and design have resulted in substantial cost reduction.

#### The Future

"As to the future, and the role of prophet is not always rewarding, it is at least interesting to speculate. Looking broadly at the national economy, I am sure it is not merely a political expedient to forecast a doubling of living standards over the next 25 years. In the building industry, for example, undoubtedly we face over the years to come a continual rise in wage rates and, at the same time, a reduction in working hours. To enjoy these advantages and still maintain full employment will necessitate continually increasing productivity. Our productivity has steadily risen over the past 10 years and I, for one, firmly believe that this progress will continue. There is an air of confidence in the industry that bodes well for the future."



Work is proceeding rapidly on the new Western Avenue Underpass at the junction of Western Avenue and the North Circular Road. This aerial photograph by Aero Stills, Ltd., shows the diversion of traffic at the junction to enable the central section of the underpass to be completed



# Talking of Safety

by

"DRAGEE"

"WE had the Factory Inspector in last week and he was kicking up a heck of a fuss over the registers."

I lit my pipe and waited for the rest of the story. My visitor was a young Safety Inspector from one of the sub-contract jobs on our Braehead B site, and although this started as a purely social visit, I soon gathered he had something on his mind.

"And was it very awful?" I asked.

"Well, he made it all sound a bit like original sin, but I suppose we were asking for it. As you know, we have quite a bit of building work on hand—work on this site started a couple of months ago—and from what I've seen I don't think the staff know very much about registers. Anyway, they dug up a copy of form 36 from somewhere under the table and then there was a general hunt for form 91. Not a sign of it, of course. Nixon—the foreman in charge—swears he's carried out the inspections regularly each week, so technically speaking his only fault is failing to record them. He looked pretty cut up when he saw the F.I. writing some notes, but I told him that the whole object of the registers was to provide a record of the inspections and he couldn't complain if he got a rocket—which he did a few days later. Hence my presence here."

"Is this your first visit to this site?" I asked.

"Yes. I've been having a devil of a time lately. Tearing round the Midlands and making myself thoroughly unpopular ever since the Old Man started the big drive. Anyway, this particular business has got me thinking. What we really want is a regular check on the registers, but it's not easy with so many small jobs scattered about the country. So I'm hoping you might be able to give me some hints!"

"I see. Well, I'm afraid I can't do anything about your present difficulty; but I can tell you about our own system, if that will help you at all."

My visitor gave me a few particulars about his Company's organisation; a medium-sized concern which carried out a variety of small industrial building and constructional contracts. While he talked I took some papers out of the filing cabinet and put them on the table.

"Let's get the scope," I said. "Most of your building jobs last more than the statutory six weeks?"

"Yes, but in any case the arrangement is the same. All the registers are kept—or are supposed to be kept—at the sites."

"*Dragee, who is a practising safety engineer, would welcome subjects for discussion in this column. All names of persons mentioned in these discussions are entirely fictitious. Questions of law are expressed as the author's personal opinions and are not claimed to be authoritative.*—EDITOR.

except part 2 of form 91 which we retain at Head Office."

"So the site staff keep the general register, part 1 of the prescribed register, possibly a register of persons using lead paint, and, of course, the Accident Book?"

"That's correct."

"Now what is your method of getting these registers out to the sites?"

"I'm afraid it's all rather haphazard. When I first took over, the drill was to wait until somebody remembered that such and such a job had started, then one of the progress boys rushed some registers off by the next post, hoping the work hadn't finished before they arrived. Of course that's changed a lot, but it still isn't perfect. Since I took over the job, our registers have been sent out automatically with the contract papers."

"Do you handle that yourself?"

"Not directly. I simply keep supplies in stock and pass them to the contracts engineer when they're needed."

"I see. Well, in our organisation the registers are sent out by my own staff. As soon as the starting date of a contract is notified we make up a complete parcel of registers, forms and posters which are packed into a large cardboard wallet—this is one of them—and the wallet is used to hold the registers while they are on the site. This label on the front reminds the agent that the registers are to be kept available for inspection by the Factory Inspector, and it also instructs him to return the registers to Head Office when they are full and when work on the site is finished. We also obtain a receipt from the agent for the various papers, so there are no disputes about what we send."

"In addition, we have a periodic check on all the registers. The sites are listed in rotation so that their registers come in for scrutiny every six or eight weeks. The agent sends a specially prepared certificate with them, stating that the entries are a true record of inspections actually made. This method also gives us the opportunity to correct omissions and faults, such as entering items of lifting tackle under 'lifting appliances' and so forth. After the scrutiny, the register is stamped and initialled, then returned to the site with a covering note. A copy of the note is sent to the Chief Engineer, so that everyone knows exactly what is going on. That system was started five years ago and today I think our standard of inspection is pretty good."

"It all sounds very efficient. Just the kind of information I need."

"That's fine. Now if you'll come over to these files I'll show you a simple method of indexing the jobs and storing registers for future use."

## FIRE PRECAUTIONS IN HIGH BUILDINGS

L.C.C. Planning Committee Report

THE L.C.C. Town Planning Committee will not in the future insist on the requirement that in high buildings the fire lift shall serve the top floor as well as all other floors, provided that the siting and arrangement of the staircases is satisfactory.

This consideration, the committee state, will avoid the necessity of lift structures projecting above the main roof level and possibly presenting an architecturally unacceptable appearance or masking the structures in ways which waste valuable floor space.

The building of more than 140 buildings over 100ft. high in London in the past few years has prompted the committee to prepare a report on the safeguards required both for the prevention of fire and for fire protection and means of escape in high buildings.

The maximum effective height at which the ladders of the London Fire Brigade can operate for fire fighting and rescue work is 100ft.; above that height the Brigade must operate within the building by using staircases and lifts.

To meet these difficulties the council requires the provision of dry rising mains (wet rising mains with booster pumps in very high buildings), lifts which can be used for fire-fighting purposes, and adequate staircases. Experience of fires elsewhere has shown that open staircases may permit the rapid spread of smoke and fire throughout the upper storeys. To guard against this all staircases in buildings in London over 100ft. high are required to be separated from the main floor areas by walls and doors having a good standard of fire-resistance.

In addition, for fire-fighting purposes—and there must be at least one lobby approach staircase in every high building—such a staircase must have a properly ventilated lobby at each floor level to separate the stairs from the main floor areas and the doors to these lobbies must be self-closing and fire-resisting.

To ensure that people should not have to pass through smoke to escape from a building the ideal arrangement is to provide an enclosed staircase at each end of the building so that wherever a fire occurs an exit which does not involve moving towards the fire will always be immediately available; but the committee think that architectural difficulties might arise if this requirement were applied rigidly.

They have agreed, as a working arrangement, that every endeavour shall be made to secure that staircases are located not more than 25ft. or 35ft. from the ends of office buildings or residential buildings, respectively.

## "THE PROFESSION IN CONTEMPORARY SOCIETY"

On March 8, at 6 p.m., Mr. W. A. Allen, A.R.I.B.A., the superintending architect of the Building Research Station, is to read at the Royal Institute of British Architects a Paper entitled "The Profession in Contemporary Society."

In his Paper Mr. Allen will examine the position in society of the professions generally as well as of architects in particular. The relations between professions, science, and industry will be touched upon, and there will be a closer look at the relations between architects and the group of professions and industries with direct interests in the field of building. The functions, standards, responsibility and organisation of professions will also receive attention.

The general thesis of the author is that professions, science and industry are entering a new phase of critical importance in their mutual development.

## FOR THE DIARY

### Feb. 23.

Institution of Plant Engineers. Meeting at the Royal Society of Arts, John Adam Street, London, W.C.2, at 7 p.m. "Some Problems in the Design of Large Rocket-Engine Test Beds," by R. H. B. Forster, B.Sc., M.I.Mech.E., chief engineer, and L. Breen, senior engineer, British Oxygen Wimpey, Ltd.

### Feb. 24.

Meeting of the Institution of Civil Engineers (East Midlands Association) at Herbert Schofield Building, Loughborough at 6.15 p.m. "The Preparation of Drawings and Contract Documents for Major Road Works, including Aerial Surveying," by R. Truswell, B.Sc., and G. Farrimond, B.Sc.

### March 4.

Institution of Highway Engineers. Meeting at the Institution of Structural Engineers, 11 Upper Belgrave Street, London, S.W.1, at 5.30 p.m. "New Methods of Automatic Traffic Control," by E. Bailey and E. Thorpe, Automatic Telephone and Electric Co., Ltd.

### March 8.

Annual dinner of the Royal Institution of Chartered Surveyors at Grosvenor House, Park Lane, London, W.1. The principal guest will be Mr. Selwyn Lloyd, Secretary of State for Foreign Affairs.

### March 30.

Annual general meeting and luncheon of the National Federation of Demolition Contractors, Waldorf Hotel, London, W.C.2.

**Trade Section**

## HOUGH PAYLOADERS TO BE MANUFACTURED IN BRITAIN

**H**OUGH Payloaders are shortly to be manufactured at the Doncaster Works of the International Harvester Company of Great Britain, Ltd., and the first unit to go into production will be the H-70.

This first model is a 105-h.p. four-wheel-drive tractor shovel of a 7,000lb. carry capacity and can be equipped with a wide range of buckets for specialised purposes. The tractor is regularly equipped with

torque converter and Paylomatic power-shift transmission providing three travel ranges, both forward and reverse.

Price and delivery details will be announced later, International Harvester state.

The Payloader is a product of the Frank G. Hough Co. of Libertyville, Illinois, a wholly owned subsidiary of the International Harvester Company of Chicago.



The Hough Payloader

## MOBILE SPACE HEATERS

### Flame Contained by Patent Filter

**A** RANGE of oil-fired portable heaters developed in the United States is now available in this country through Contractors and Industrial Equipment, Ltd., 31 Birmingham Street, Oldbury, Birmingham.

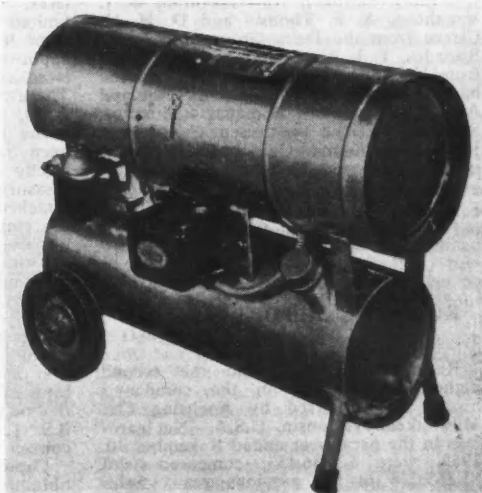
In these heaters the flame is completely contained in a patented Solar Glow flame filter. This operates like a miner's lamp, having openings of .018 sq. in. through which the unburned gases must pass, and eliminates the hazards of sparks and unburned noxious gases. Automatic heat control which prevents overheating is standard equipment. Fire hazards from fuel leaks are reduced by the use of electric solenoid valves instead of hand valves. The fuel tank is made of heavy gauge steel electrically welded and of tubular construction.

The fuel, which may be either paraffin or furnace oil, is drawn from the storage tank by an oil pump, developing approximately 85lb. p.s.i. pressure and forced through the nozzle of the burner where it is atomised into a fine mist. This is then mixed with a metered volume of air and ignited by ignition electrodes resulting in a well defined flame jet inside the combustion chamber. A powerful blower unit drives fresh air around the combustion chamber where it is heated and passes out as a clean

heated air current which can be directed where required.

Operation is by normal A.C. power supply and safety devices include thermostatic control and instant cut off when fuel reaches a minimum level. Starting is also automatic on the turn of the ignition switch.

The first unit available is the Model D.30 which has a heat output rating of 100,000 B.Th.U./hr. and an air delivery of 36,000 cu. ft./hr.



Model D.30 portable heater

## BRITISH FIRM TO MAKE OVERSTROM SCREENS

**O**VERSTROM vibrating screens are now to be manufactured under licence by Armstrong Whitworth (Metal Industries), Ltd., Gateshead. The British firm has the rights for manufacture and sales throughout the world, with the exception of the Americas and New Zealand.

The screens are built for wet or dry, light, medium and heavy service. There are seven sizes ranging from 3ft. x 18in. to 16ft. x 6in. and each can be equipped with one, two or three decks. All screens can be fitted with partial or complete dustproof enclosures, water spray equipment, and heating units which are sometimes required for the finer mesh decks dealing with damp, sticky materials.

No eccentric mechanism is involved to produce the rocking action. Vibration is set up by having unbalanced flywheels mounted at the ends of a plain shaft in the vibrator unit which is fixed rigidly on the screen box. Rotated at high speed, the flywheels set up in the spring-mounted screen a motion which is directly contrary to their own movement.

The amplitude of the screen rocking action is directly proportional to the amount of unbalanced weight in the flywheels and is independent of the speed of the rotation. It can be adjusted to suit varying feeds by adding or removing the counterweights bolted to the inside of the flywheel rims.

No counter balancing is necessary to prevent transmission of vibration to the supporting structure.

## UNISTRUT RANGE EXTENDED

Conduit end connections, newly designed cable tray brackets and a smaller pipe roller are three additions to the Unistrut steel channel range of fittings made by Sankey-Sheldon, Ltd., 43 Broadwater Road, Welwyn Garden City, Herts.

The end connections enable conduit to be attached to the end of the Unistrut channel when used as fluorescent lighting trunking. The connection is secured by a single screw in the channel and is supplied ready-drilled for either 1in. or 3/4in. conduit which is accommodated inside the channel.

The new cable tray brackets can be more speedily fixed with the self-locating nut and bolt unit to the Unistrut channel or concrete insert, and have a punched-out locating lug to assist alignment. Twin sets of holes accommodate all standard traying components.

Cast pipe chair and roller are designed to take pipes, etc., from 3in. nominal bore downwards. The chair is secured by a single screw to the Unistrut channel.

## AMERICAN TOOL BURNS THROUGH CONCRETE

Equipment said to be capable of cutting through concrete, steel or other hard material of any thickness, has been produced by the Linde Department of the Union Carbide International Company, New York.

The principle of the equipment, known as the Oxweld ACL-4 Powder Lance, is the accurate control of intense heat. Lengths of standard black iron pipe are fitted into the front end of the ACL-4, which is connected to an oxygen supply and a source of special Oxweld metallic powder mixture. The oxygen and metallic powder are mixed in the pipe and carried to the material being cut. This mixture is ignited at the end of the iron pipe, producing an extremely high-temperature reaction, that melts both ferrous and non-ferrous material in its path.

On materials such as concrete a special mixture of iron and aluminium powder known as Oxweld No. 201 Lancing Powder is used. Average consumption rates per sq. ft. of concrete cut are: 1,000 cu. ft. of oxygen; 40lb. of Oxweld 201 powder, and 10ft. of standard black iron pipe.

## Trade Section

## TRACTOR-MOUNTED PAVING MACHINE DEMONSTRATED

A TRACTOR-MOUNTED paving machine, made by Frederick Parker, Ltd., Leicester, and based on an American design, was recently demonstrated at work on resurfacing a stretch of the Coventry By-pass.

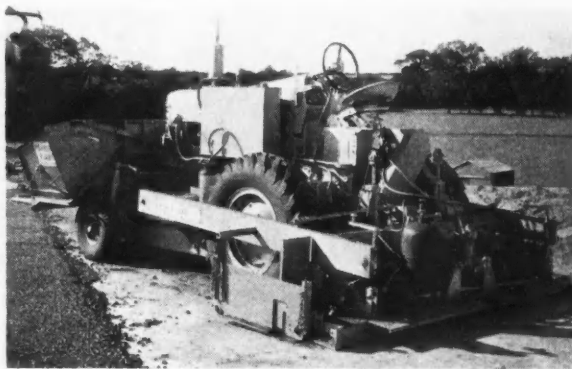
The material laid was base course and hot rolled asphalt wearing course, with pre-coated chippings, and the contractors were Limmer and Trinidad Lake Asphalt Co., Ltd.

Assembled on the standard Fordson diesel tractor, the machine can turn on an inside radius of 5ft. It has hydraulic steering and paving speeds from 3ft. to 60ft. a minute. For laying material the machine has three forward gears and one reverse; for travelling six forward and two reverse. Control of its laying speed and most other functions is hydraulic.

The 7-ton machine has a screed heated by bottled gas, precise crowning adjust-

ment and  $\frac{1}{2}$  in. to 5 in. paving depths. It has ample power to push loaded 10-wheel trucks. Laying capacity is up to 80 tons an hour.

The pusher rollers and feed hoppers at the front of the paver are adjustable to suit various types of truck. The material from the hopper is taken to the rear of the paver by transfer conveyor. An oscillating cutter-compactor bar finally lays and compacts the materials and a "floating" screed at the rear of this compacts the material still further.



The Parker paver

### HEAVY-DUTY GREASE PUMP

Centralube, Ltd., Eley Estate, London, N.18, have developed a high-pressure pump for feeding heavy lubricants at high pressures. Called the Hercules, it is capable of pumping bitumastic materials such as Shell Cardium C or D compound, or Mobil Doria 150, and can operate at a maximum working pressure of 15,000 p.s.i.

The pump is foot-operated; it has a handwheel which is turned down approximately every 20 to 40 applications, to ensure that the lubricant finds its way into the pressure chamber. The output per stroke may vary slightly with the type of grease; in the case of a grease of penetration 250, it is 2.3 grams per stroke.

The high pressure that can be developed by the pump is suitable for lubrication of chassis and machine parts and through long pipe lines. It can also be used with positive dividers, and as such is an intermediate step between a centralised lubrication system and grease nipples. The weight of the pump mounted on two wheels is just under 50lb.

### SITE IMPROVEMENTS, LTD.

Two new private companies, Site Improvements, Ltd. and its wholly owned subsidiary, Site Improvements (Developments), Ltd., have recently been formed as property investment and property developing and dealing companies, respectively.

The parent company has an authorised and issued share capital of £1,550,000 in Ordinary shares of £1 each (2s. paid) and the subsidiary an authorised share capital of £100,000 in Ordinary shares of £1 each.

The directors of both companies are Mr. H. J. S. French (chairman), Lord Ashcombe, Mr. Robert Clark, Mr. E. J. T. Goudie and Mr. H. E. Netherclift. The secretary and registered office are Mr. R. E. Woolley, F.F.C.S., 54 Warwick Square, London, S.W.1.

### NEW ALUMINIUM COMPANY

The Delta Metal Co., Ltd., have announced the formation of a new company, James Booth Aluminium, Ltd., to acquire the whole of the aluminium and light alloy interests of their existing subsidiary, James Booth and Co., Ltd.

The new company will have an issued capital of £10m., of which Delta will contribute £5m. by way of existing assets, and Kaiser Aluminium and Chemical Corporation £5m. by way of additional finance. The new finance will be used to expand and re-equip the company's works at Kitts Green, Birmingham.

Management of the new company will remain in the hands of the Delta Group, and the board of directors will comprise: W. E. Ogden (chairman of the Delta Metal Co., Ltd.) chairman; W. W. Dolton, W. J. Vaughton, A. F. Thomas and D. H. H. Clarke from the Delta Group, and D. A. Rhoades, T. J. Ready and A. H. Branstad from Kaiser Aluminium. W. J. Vaughton has been appointed managing director and A. H. Branstad, assistant managing director. Sir Horace Clarke, the present chairman of James Booth and Co., Ltd., has been invited to become Honorary President.

Provision has been made to ensure that control of the new company will not pass out of the United Kingdom.

### KOEHRING REPORT RECORD SALES

Record 1959 sales and the second highest net income in the company's history are reported by Koehring Co., Milwaukee, Wisconsin, U.S.A. Net earnings in the fiscal year ended November 30, 1959, were \$2,386,153, compared with \$1,165,266 in the previous year. Sales amounted to \$60,937,700 against \$45,457,585.

### 2½ IN. PUMP DELIVERS 14,000 G.P.H. AT 10FT. HEAD

"POWER BULLFROG" is the name given to a new self-contained pumping unit introduced by Patay Pumps and Turbines, Ltd., Horton Parade, West Drayton, Middx. It is a development of their Rotodynamic pump, with a flexible drive from the power unit.

This flexible drive shaft allows the pump to work in the liquid to be pumped without valves or any type of priming system. Both axial faces of the impeller rotate freely in the water outside the casing, reducing the chance of foreign bodies jamming between impeller and casing wall and also freeing the seal from any pressure generated by the pump.

Fitted with 2½ in. delivery hose the unit is claimed to have a capacity of up to 14,000 gallons per hour at 10ft. total head and almost 12,000 gallons per hour at 20ft. head with a maximum head of 36ft. The standard power unit is rated at 2½ b.h.p.

An additional pump attachment, the "Rana," is available for the Power Bullfrog. This is a medium pressure, medium capacity pump with maximum capacity of 4,000 gallons per hour and maximum head of 100ft.

The Rana attachment can be used submerged or alternatively can be fitted with suction hose and footvalve. On suction duties it is claimed to have a lift of over 31ft. and consequently when used in the standard 17ft. 6in. flexible drive shaft can draw water from 48ft. below ground level, a depth which can be increased to nearly 56ft. if the 24ft. flexible drive shaft is fitted.

### SAVILLE TO RUN FOUR MAINTENANCE COURSES

The London branch of Saville (Tractors), Ltd., which last year held a number of successful courses on the maintenance of IH crawler and wheel tractors, are to hold four further courses next month the dates being March 7-9; 14-16; 21-23; and 28-30.

Each course lasts three days and is free of charge.

The school will be held at Saville's new premises, International House, Staines Road, Feltham, Middlesex, and will, as before, be directed by Mr. J. V. Grant, works and service manager.

Application forms, giving full particulars of the school, can be obtained from the above address.

### BRITISH STANDARDS

#### Classification of wood preservatives and their methods of application

That prevention is better than cure is the emphasis of this revised British Standard (B.S. 1282:1959) on wood preservatives. First published in 1945 in a more limited form, the standard now deals at some length with the various methods of application, the selection of wood preservatives, and treatments for various purposes. The grouping of preservatives into tar oil types, organic solvent types and waterborne types proved convenient and has been retained. The main hazards are briefly described, and, although remedial measures for timber which has already been attacked by fungus or insect are outlined, the emphasis is on prevention.

Three appendices give information on the resistance of the heartwood of some common woods to impregnation with preservatives, a list of naturally durable woods, and a bibliography of detailed information on the subject.

This standard is a guide and classification only, and the foreword warns that no form of words indicating that a preservative or preservative treatment conforms to B.S. 1282 should be used, as it would convey no meaning. Price 6s.

Copies of this British Standard may be obtained from the British Standards Institution, Sales Branch, 2 Park Street, London, W.1.



## Trade Section

## 2 CU. YD. BLAW KNOX EXCAVATOR FOR QUARRY WORKING

A MACHINE specially designed for excavating and loading in quarries and gravel pits is now being produced by Blaw Knox, Ltd., 94 Brompton Road, London, S.W.3. Called the BK Hydroscoop, it will handle up to 350 cu. yd. an hour using, it is stated, less than 70-h.p.

For rehandling work a 2 cu. yd. bucket is standard but for light materials such as coal and coke larger buckets can be fitted.

Raising and lowering of the parallel linkage is by hoisting line; clutch and brake drums are booster operated and controlled through foot pedals. Bucket thrust and break-out operations are hydraulically operated through finger-light controls and a digging force of 26.5 tons is exerted at the bucket teeth.

The Hydroscoop has a 360 degrees swing with 20ft. level clean-up radius. It will dig any angle of slope and excavate to 2ft. below ground level. Maximum dis-

charge height is 9ft. 10in. The parallel linkage action gives long reach and high lift, and maintains the bucket level during lifting.

The hydraulic system is fully sealed and constant power to the rams is delivered by the hydraulic pump which is driven by front engine power take-off from the base machine's six-cylinder diesel engine which develops 67 b.h.p. at 1,380 r.p.m. Simple controls provide for a rapid change-over from travel to operation.



The BK Hydroscoop

## NEW SIMPLITE SLUDGE PUMP

A MARK III version of the Simplite sludge pump, marketed by William R. Selwood, Ltd., Chandler's Ford, Hants, has an increased maximum output of 3,500 gallons an hour. The size of the pump remains the same, 2in. suction and 3in. delivery.

Two small wheels are now fitted to one end of the base plate. These wheels are clear of the ground when the pump is working but come into operation when the new folding handle at the suction end of the pump is lifted. By this means the pump can be pulled or pushed without difficulty, the weight being 105lb.

Lubrication has been improved by boring through the eccentric shaft so that the large greaser on the end of it immediately above the folding handle now lubricates the two eccentric shaft bearings and the eccentric itself in one operation. All three of these bearings retain the grease reservoir as previously so that they can run for a considerable time without attention.

In the new design an improved type of

shear pin is fitted which connects two flanges. If this shear pin breaks the end can fall clear away but even if a piece is left in position because it is of soft brass no serious damage is caused.

The engine is now mounted on slotted holes so that the chain can more easily be adjusted and the chain guard is improved giving easier dismantling. Inside the base of the pump a small dome immediately below the pump rod acts as a deflector for any stones that may be drawn into the pump so obviating risk of damage to the pump rod.

## IMPROVED BROLAC EMULSION PAINT

A new type of water-thinned plastic emulsion paint, known as Brolac P.E.P. and based on a vinyl co-polymer resin, has been introduced by John Hall and Sons (Bristol and London), Ltd., Hengrove, Bristol, 4.

The new paint, claim the manufacturers, may be used on any paintable surface, including brick, concrete, and pebble-dash, either indoors or out, and it will not blister, peel or flake-off under condensation in kitchen or bathroom.

Due to the clinging quality given by the co-polymer base, the paint can be applied to glossy surfaces without preliminary rubbing down, it is stated, and can also be used on hardboard or bare wood without priming.

Developed jointly with the new emulsion paint is a tube-tinting system to be called Brolac Colorvogue, which will give 100 additional colours obtained by tube-tinting selected standard colours with special universal stainers.

The system is applicable to all of the Brolac paints, allowing an exact match between gloss enamel, eggshell and emulsion finishes.



The new Simplite pump

## AUTOSTOPER VERSION OF HOLMAN ROCK DRILL

THE Silver Three rockdrill made by Holman Bros., Ltd., Camborne, Cornwall, is now available as a single or double extension autostoper.

Developed from the standard Silver Three Handril, the autostoper is integrally mounted to the piston of the feed cylinder and a feed length of 3lin. is provided. A positive feed control is provided on the control handle, and lubrication is by line oiler. The feed cylinder bore is 2½in. and the length of the autostoper is 61½in. when closed. It weighs 86lb. with a collared steel chuck.

The double extension autostoper was originally developed to suit specific drilling requirements in Australia where local conditions required the use of a stopper which would provide maximum feed with the shortest possible closed length. Its closed length is 5lin. which enables the operator to work in tight corners and to angle the autostoper much more than can be done with a single extension machine. A feed length of 40in. is provided, and the feed is controlled within fine limits by means of a sensitive twist grip throttle.

The double extension autostoper has 2½in. and 2¼in. feed cylinder bores. The length of the stopper is 9lin. when fully extended. It weighs 98lb.

## VERTICAL ROUTING ATTACHMENT

A vertical routing attachment for use with standard square chisel mortising equipment has been produced by B. S. Varley, Sabden, near Blackburn. It is capable of a wide range of wood cutting operations including trenching, mitring, square and scribed tenoning, etc., to a maximum depth of 5in., and fits the position normally held by the square chisel and auger without any modification to the machine.

The holder shank has the same 1½in. diameter as a standard square chisel shank and the ½in. driving shank is identical with the auger used in conjunction with the square chisel. Standard R. H. routing cutters with ½in. diameter parallel shanks are used, and the drive is taken from a 5in. diameter horizontal pulley, via two jockey pulleys to a 1½in. diameter ball-bearing cutter spindle, giving a final driven speed of about 12,000 r.p.m. One jockey pulley is mounted on a cranked spindle to facilitate adjustment to the flat endless driving belt.

## CUMMINS DIESEL ALTERNATIVE FOR VIGOR TRACTOR

Vickers-Armstrong (Tractors), Ltd., Newcastle upon Tyne 5, announce that the Vigor tractor is now available powered by the 210-h.p. Cummins NT-6-BI diesel engine.

The turbo-charged NT-6-BI is one of the Cummins range from 130-335 b.h.p. built at Shotts, Lanarks. Its basic parts are interchangeable with those of all other British and American-built Cummins engines in the same horsepower range.

## IMPORT LICENSING BRANCH

The functions of Import Licensing Branch are being transferred to the Tariff and Import Policy Division of the Board of Trade and the present offices in Marsham Street, London, have been closed.

All applications and inquiries relating to import licensing should now be addressed to the Board of Trade, Tariff and Import Policy Division, Horse Guards Avenue, London, S.W.1, telephone: Trafalgar 8855.

## Trade Section

## 109FT. HIGH PINGON TOWER CRANE WITH 82FT. RADIUS

**T**HE erection system employed on the Pingon P.10-615 tower crane, introduced at the last Ministry of Works Building Plant Exhibition, has now been incorporated in a new and larger model, the P.18.



The Pingon P.18, showing how jib and counter jib are mounted on an inner mast which telescopes into the main mast

In this system the jib and counter jib are carried horizontally on a short "inner mast," having a section slightly smaller than that of the main mast inside which it rises. In effect, the jib and inner mast assembly act like a climbing crane, the main mast representing the shaft in the building in which such a crane is normally carried.

As with a climbing crane this assembly can be raised within the main mast, which is composed of complete sections having one side open to enable them to be positioned round the inner mast by the crane's own trolley hook. The remaining cross-members are then bolted in position, thereby closing the open side, and the inner mast is raised within it ready for the next section. The height of the mast can be increased at any time by the insertion of further sections without either dismantling the jib or even re-reeving the ropes.

The P.18 has a maximum capacity of 40cwt. at 29ft. radius and lifts 14cwt. at its full radius of 82ft. If required, as on a particularly restricted site, for example, the jib length can be reduced to give a maximum working radius of either 66ft. or 43ft.

In its rail-mounted form, the crane offers a maximum height under the hook of 109ft. but, as with other models in the Pingon range, this height can be increased substantially if certain anchorage to the building can be provided. Alternatively, the P.18 can be operated as a climbing crane.

Control is by push button remote control panel, and the crane is fitted with two-speed hoist and slewing motors, the total power requirement being 20 Kva.

George Cohen, Sons and Co., Ltd., Wood Lane, London, W. 12, are the sole U.K. distributors of Pingon cranes.

## NEW CAB FOR MASSEY-FERGUSON 702

**A** NEW Victor Stormguard cab is now in production for the Massey-Ferguson 702 tractor with front end loader. It is made by Victoria Sheet Metal Co., Ltd., Wellington, Salop.

Of all-steel construction with safety glass throughout, the cab conforms with



The 702 tractor with Victor Stormguard cab

Ministry of Transport requirements. It has sliding windows for signalling, and all-round visibility, including to the rear through a large window in the roll-down curtain.

The cab is the full width of the tractor and is supplied complete with additional leg shields and running boards for the protection of the operator. The retail price of £60 ex works, includes electric windscreen wiper and roll-down rear curtain with large flexible window.

## NEW COMPANIES

*The undermentioned particulars of new companies recently registered are taken from the daily register compiled by Jordan and Sons, Ltd., company registration agents, 116 Chancery Lane, London, W.C.2:—*

James Eaton and Sons, Ltd., Wharf Road (off Navigation Road), Chelmsford, builders. £1,500. Directors: James Eaton, 17 Old Court Road, Chelmsford; Cecilia Eaton, 23 Grove Road, Chelmsford; George Eaton, 1 Lady Lane, Chelmsford.

Hitch and Fossey (Builders), Ltd., 107 Seely Road, S.W.17. £2,000. Directors: Ralph W. Hitch, 114 Southcroft Road, S.W.17; Frederick J. Fossey, 15 Gorringe Park Avenue, Mitcham.

Trevoise Builders, Ltd., Trevoise Golf Club, Constantine Bay, Cornwall. £100. Directors: John C. Gammon and Peter Gammon, 80f Eaton Square, S.W.1; Richard J. Westlake, Pentreath, Constantine Bay, near Padstow, Cornwall.

E. M. Mole (Builder), Ltd., 850 Wimborne Road, Bournemouth. £1,000. Directors: Edgar M. Mole and Mrs. Edna D. Mole, 51 Kingswell Road, Ensbury Park, Bournemouth.

S. P. Clements, Ltd., Swell Place, Heavitree, Exeter, builders. £5,000. Permanent directors: Samuel P. Clements and Emily E. Clements, Queens Road, Exeter.

Specialist Builders, Ltd., The Gate House, Pollards Park, Nightingale Lane, Chalfont St. Giles, Bucks. £100. Directors: Wm. Brown, Pine Lodge, Lower Road, Higher Densham, Bucks.; Ernest A. R. Herren, The Gate House, Pollards Park, Nightingale Lane, Chalfont St. Giles; Mrs. Julie Brown and Mrs. Dorothy J. Herren.

H. R. Atkinson and Co., Ltd., Main Street, Ponteland, Northumberland, builders. £1,000. Directors: Herbert R. Atkinson, The Orchard, Dipton Foot, Riding Mill, Northumb.; Robert W. Atkinson, 172 Middle Drive, Darras Hall, Ponteland; Alfred L. Blythman, 170 Middle Drive, Darras Hall, Ponteland.

Tynemouth Builders (Development), Ltd. 24 St. Marys Place, Newcastle upon Tyne. £1,000. Directors: William L. Gofton, 29 St. Georges Crescent, Whitley Bay; Cuthbert Dunleavy, 1 Grange Close, Cullercoats, Tynemouth; John L. Harrison and Arthur Sabiston.

H. B. Mann and Son Building Contractors (Sutton-in-Ashfield), Ltd., Opas House, Market Street, Sutton-in-Ashfield. £5,000. Directors: Herbert B. Mann and Celin Mann, 224 Sutton Road, Mansfield.

J. H. Corker, Ltd., 22 Boar Lane, Leeds, 1, builders. £2,000. Directors: John H. Corker, Cedar Crest, Hill Top, Silkstone Common, Yorks.; Julie C. Hampshire, Hill Top Cottage, Silkstone Common, Yorks.

Cornelly Plant Hire Co., Ltd., 39 Victoria Street, London, S.W.1. £100. Directors to be appointed by the subscribers. Subscribers: Henry T. Holt, 45 Carlton Avenue, Kenton, Harrow; Wm. Baker, Midhurst, St. Louis Grove, Herne Bay, Kent.

Fletcher and Jones (Pipe Fabrications), Ltd. £1,000. Directors: Ronald J. Fletcher and Kathleen Fletcher, 7 Hillside Drive, Pendlebury, near Manchester.

Radford and Walters, Ltd., Central Chambers, Red Lion Square, Heanor, Derbys., builders. £10,000. Directors: John Radford, 16 South Place, Ripley, Derbys.; Alfred Walters, 30 Bowler Street, Marehay, Ripley, Derbys.

Bilston Built-up Roofing, Ltd., Short Street, Wellington Road, Bilston. £100. Directors: Sydney Haynes, 1 Wellington Road, Bilston, Staffs.; Thomas Sutton, Moxley Road, Bilston, Staffs.

Western Building Co. (Bridgend), Ltd., The Offices of Graham Paul and Co., 10 Dunraven Place, Bridgend. £1,000. Directors: Granville Bryant and Marion R. Bryant, 59 Cowbridge Road, Bridgend.

E. G. Acworth (Builders), Ltd., 207 High Street, Waltham Cross, Herts. £50,000. Directors: Ernest G. Acworth, Glebelands, Copped Hall Green, Waltham Abbey; Donald E. Acworth, 22 Pick Hill, Waltham Abbey; Minnie Acworth and Raynor P. Acworth.

## GERMAN VISIT PLANNED

C. H. Johnson (Machinery), Ltd., Adswood Road, Stockport, Ches., sole distributors in the U.K. for the road building machines made by Allgemeine Baumaschinen-Gesellschaft (A.B.G.), Germany, are making arrangements for a party of civil engineers and contractors to visit the Industrial Fair at Hanover on May 2 and 3. The visit will be followed by a tour of major road and airfield construction sites in Germany.

All travel costs within Germany will be paid by A.B.G., while travel costs to and from Germany and hotel and meals expenses will be paid by the participants. C. H. Johnson will make all the hotel and other arrangements and provide English speaking personnel.

## THERMALITE PRODUCTION EXPANSION

Thermalite Ytong, Ltd., announce the construction of two new factories—one at Manchester and one in the Greater London area—which are to come into operation early in 1961. These new factories will greatly expand production of Thermalite, which is now manufactured at the Midland factory mid-way between Birmingham and Coventry and the southern factory at Reading. The Company already manufactures 95 per cent. of all high pressure steam cured aerated concrete produced in this country.

# Current Construction Activities

## PROJECTS • CONTRACTS • AWARDS

**THIS** editorial feature provides readers with a comprehensive news service covering forthcoming private and public construction work. Commencing on this page information is given concerning future projects followed by details of tenders being invited. In the third section will be found news of tenders recommended for acceptance, tenders accepted and contracts awarded. Attention is also drawn to the advertisements covering contracts and appointments appearing in the front part of the *Journal*.

### BUILDING AND DECORATING (See also Housing Schemes)

**Aberdeen.**—J. Douglass Mathews and Partners, 3 Ebury Street, London, S.W.1, are the architects for the proposed natural philosophy department at St. Machar Drive, Old Aberdeen, for Aberdeen University. John Dansken and Purdie, 3 Diamond Street, Aberdeen, are the quantity surveyors. G. H. Buckle and Partners, 3 Hamilton Gardens, London, S.W.7, mechanical and electrical consultants, and Cyril Blumfield, 32 Corkran Road, Surbiton, Surrey, the structural consultant. Estimated cost £600,000.

**Aberdeen.**—City Council approved plans for a new natural philosophy department at St. Machar Drive, Old Aberdeen, for Aberdeen University.

**Accrington, Lancs.**—B.C. recommended to approve plans, etc., and invite tenders for provision of new fish market.

**Barnsley, Yorks.**—B.C. recommended to approve plans for erection of club premises, Wellington Street-Wortley Street for Barnsley Radical and Liberal Club, 19 Market Street, and Church hall, Pontefract Road, Lundwood, for Rev. P. J. Reeves, Matlock Road.

**Barrow-in-Furness, Lancs.**—B.C. preparing working drawings and bills of quantities for erection of a crematorium. Tenders expected to be invited in August or September; to approve scheme for improvements at Wennington Hall Boarding Special School for Maladjusted Pupils. Estimated cost £4,672.

Borough Surveyor to prepare estimates for erection of community centre and construction of a lighted hard surface playing area on the Ormsgill estate.

B.C. recommended to apply for sanction to borrow £13,000 for conversion of Drumard House as a training centre.

**Basingstoke, Hants.**—Wessex Regional Hospital Board have approved schemes for a new chest clinic at Basingstoke Hospital and sanitary facilities in staff houses at Park Prewett Hospital. Estimated cost £2,000 and £5,000, respectively.

**Becles, Suffolk.**—B.C. recommended to prepare plans for the erection of six garages at Orchard Green; approve scheme for additional works at the swimming pool. Estimated cost £1,000.

**Beverley, Yorks.**—B.C. recommended to approve works at Cattle Market. Estimated cost £750.

**Bexhill, Sussex.**—B.C. recommended to approve the provision of a permanent refreshment kiosk on the West Parade. Estimated cost £3,000.

**Blackburn, Lancs.**—Peter R. Nuttall, Westwood Chambers, 5 Kay Street, Rawtenstall, Rossendale, is the architect, and D. Lomax, Facitt Road, Blackburn, the quantity surveyor, for erection of church hall and presbytery at Shadsworth. Tenders not yet invited.

**Blfield and Flegg, Norfolk.**—Divisional Licensing Committee have granted a provisional licence for a public house at Laundry Lane, Thorpe, for Bullard and Sons, Ltd., Anchor Brewery, Norwich.

**Brighton, Sussex.**—Clayton, Black and Daviel, 10 Prince Albert Street, are the architects and A. Boxall and Partners, 27 Queens Road, the quantity surveyors for erection of light industrial factory at The Hyde, Beven-dean, for West Instruments, Ltd. Estimated cost £50,000.

**Burnley, Lancs.**—Tenders to be invited soon for erection of St. Augustine's Church, Lowerhouse. Peter R. Nuttall, architect, Westwood Chambers, 5 Kay Street, Rawtenstall, Rossendale, Lancs.

**Cheltenham, Glos.**—B.C. recommended to apply for sanction to borrow £2,408 for additional works at the public abattoir.

**Chippenham, Wilts.**—B.C. recommended to approve scheme for the provision of changing room accommodation at the bowling green, John Coles Park, during 1960-61. Estimated cost £800.

B.C. recommended to approve plans, subject to conditions and C.C. approval, for a supermarket with storage and office area at the Bridge House, for Arndale Property Co., Ltd., 118-120 Swan Arcade, Bradford.

**Dewsbury, Yorks.**—B.C. recommended to approve scheme for converting the disused chapel in Dewsbury cemetery into a Chapel of Rest.

**Doncaster, Yorks.**—B.C. recommended to approve repair and decoration at Museum and Art Gallery. Estimated cost £2,000.

B.C. recommended to approve plans for licensed premises to be erected at Everingham Road, stage three, Cantley estate, for James Hole and Co., Ltd., Haymarket, Humberstone Gate, Leicester.

**Dundee.**—Esso Petroleum Co., Ltd., 36 Queen Anne's Gate, London, S.W.1, are to construct an oil depot at Stannergate. Estimated cost £100,000.

**Dunoon, Argylls.**—B.C. to purchase the Cosy Corner site for the construction of an indoor swimming pool.

**Dunstable, Beds.**—C.C. to submit to Home Office for approval, sketch plans for a court-house. Estimated cost £37,000.

**Edinburgh.**—City Council propose a new office and storage block at King's Stables Road, for Lighting and Cleansing Department. Estimated cost £100,000. Garages and workshops will be built on an adjoining site, £21,000.

**Fareham, Hants.**—Wessex Regional Hospital Board have approved in principle, the provision of a residential psychiatric treatment unit in the grounds of Knowle Hospital.

**Fulham.**—L.C.C. approved a scheme for improvements at Everington Secondary School. Estimated cost £13,065.

**Grantham, Lincs.**—B.C. recommended to approve plan for the provision of a paddling pool at Dysart Park. Estimated cost £600.

**Harrogate, Yorks.**—Clifford Tee and Gale, 5 Buckingham Palace Gardens, London, S.W.1, are the architects for the erection of a block of offices on the site of the Berkeley Hotel at 35 Victoria Avenue, for the Mercantile Credit Co.

**Heywood, Lancs.**—Peter R. Nuttall, Westwood Chambers, 5 Kay Street, Rawtenstall, Rossendale, is the architect, and B. D. Etchells, Oxford Road, Manchester, the quantity surveyor, for erection of primary school. Tenders not yet invited.

**Ilford, Essex.**—B.C. recommended to approve plans for the provision of a public convenience at Redbridge recreation ground, Keswick Gardens; sketch plans for proposed erection of shops and office block at north side of The Broadway and appoint Walter Green and Partners, 396 Seven Sisters Road, London, N.4, as quantity surveyors and E. Wingfield-Bowles and Partners, 32 Old Queen Street, London, S.W.1, as heating consultants for the scheme.

**Ilkeston, Derbys.**—B.C. recommended to prepare draft plans for major improvements at the Town Hall and the provision of a new office block adjacent thereto; approve scheme for alterations, repairs and adaptations at 22 Burns Street, to provide office accommodation, estimated cost £2,100; invite tenders for the external painting of 500 Council houses.

**Kilroot, Antrim.**—A survey has started on a 200-acre site on which Imperial Chemical Industries, Ltd., Imperial Chemical House, Millbank, London, S.W.1, propose to erect a tylene factory.

**Lanarkshire.**—C.C. have approved a £16M. school-building programme for the next five years. The programme includes 59 new schools.

**Leamington Spa, War.**—B.C. recommended to approve scheme for the equipment store, lavatories and dressing room building at Brunswick playing field.

**Leeds.**—City Council recommended to invite tenders for the erection of 22 brick garages on land off Coronation Parade, Halton Moor estate; to approve the erection of temporary branch library on a site off Selby Road, Halton, and alterations and improvements at central restaurant in the Town Hall. Estimated cost £3,000 and £5,959, respectively.

**Leicester.**—Sheffield Regional Hospital Board recommended to appoint Pick, Everard Keay and Gimson, 6 Millstone Lane, Leicester, architects for examination suite at Royal Infirmary Maternity (John Faire Block), and alterations at Fielding Johnson Hospital.

Sheffield Regional Hospital Board recommended to appoint Wood and Weir, Guardian House, 64 Charles Street, Leicester, quantity surveyors for pharmacy at Royal Infirmary and for laundry improvements at Leicester Isolation and Chest Unit.

**Lincoln.**—Sheffield Regional Hospital Board recommended to appoint A. E. Thornton, Firkin and Partners, 10 Mint Street, Lincoln, quantity surveyors for adaptations at Lindum Lodge, Sewell Road, and for central linen and sluice room at City Hospital.

**Llandysul, Cards.**—Co. E.C. have approved plans for the second phase of improvements and additions at the grammar school. Estimated cost £34,000.

**Loughborough, Leics.**—Sheffield Regional Hospital Board recommended to appoint Pick, Everard, Keay and Gimson, 6 Millstone Lane, Leicester, architects, and F. H. Butler, 32 High Street, Loughborough, quantity surveyor for adaptation to 57 Park Road, to provide additional nurses' accommodation for General Hospital.

**Luton, Beds.**—Borough Architect to proceed with the preparation of detailed plans for the erection of stage I of cleansing depot at Kingsway/Portland Road.

B.C. have approved plans for alterations to the Ashcroft Secondary School; revised scheme for the provision of new baths establishment at Bath Road. Estimated cost £400,000.

B.C. to submit to the Local Education Authority for inclusion in the 1960/61 programme, the following minor schemes: Farley Junior—temporary classrooms, £2,100; Norton Road Junior—temporary classrooms and lavatory and washing improvements, £2,100 and £2,800; Beech Hill Secondary—laboratory conversion, £1,800; Secondary Technical—additional laboratory, £6,000; Stopley Secondary—caretaker's house £2,400, rural science unit £2,400, laboratory conversion £1,800, alterations—amalgamation of boys' and girls' departments £800; School Clinic—extension, £17,000.

**Maidstone, Kent.**—B.C. recommended to approve the extension of the Civil Defence Headquarters at Kenmore to include the provision of a store room and another lecture room and invite tenders for the decoration of the ceiling, trusses and balcony of the large swimming bath. Estimated cost £1,300 and £750, respectively.

B.C. to submit to C.C. for approval outline application for the conversion of 13 Rocky Hill and 107 Tonbridge Road, including the erection in rear garden of an annexe containing 16 single bed-sitting rooms as accommodation for old people; use of land for a combined Borough Surveyor's and Transport Depot, comprising erection of office accommodation and formation of new vehicular access to Loose Road; construction of a new baths establishment on land forming West Park Road allotments.

B.C. recommended to approve plans for additional storey on west wing to form extension to the West Kent General Hospital, for the South-East Metropolitan Regional Hospital Board; installation of three 2,000-gallon underground petrol storage tanks, resiting of fuel pumps and erection of canopy over pump island, at the Speedwell Service Station, Ashford Road, for the Regent Oil Co., 117 Park Street, London, W.1.

**Melton Mowbray, Leics.**—Sheffield Regional Hospital Board recommended to appoint Wood and Weir, Guardian House, 64 Charles Street, Leicester, quantity surveyors for maternity unit at St. Mary's Hospital.

**Mickleover, Derbys.**—Sheffield Regional Hospital Board recommended to appoint Messrs. Gleds, 7 Clinton Terrace, Derby, quantity surveyors, for extension of main kitchen at The Pastures, Mickleover.

**Mickleover, Derbys.**—Parish Council to submit to Repton R.D.C. for approval, plans for the erection of a swimming bath and community centre at the rear of the village's memorial hut, Station Road.

**Nelson, Lancs.**—B.C. recommended to apply for sanction to borrow £4,000 for erection of an aged persons' social centre in Brunswick Street; to approve plan for erection of public conveniences in Victoria Park. Estimated cost £1,400.



**Newcastle-under-Lyme, Staffs.**—B.C. recommended to approve scheme for the construction of a new covered market. Estimated cost £90,000.

**Newport, Mon.**—B.C. recommended to prepare working drawings for the construction of the Alway neighbourhood shopping centre.

**Northamptonshire.**—E.C. propose the erection of county library headquarters on police station site at Angel Street, Northampton.

**Nottingham.**—Sheffield Regional Hospital Board recommended to appoint Hedley B. Marshall, 8 King Johns Chambers, Bridlesmith Gate, Nottingham, architect, and Wood and Shambrook, Wheeler Gate Chambers, Nottingham, quantity surveyors for centralisation of catering facilities and provision of central staff dining room at Mapperley Hospital.

**Nottingham.**—City Council recommended to approve scheme for the adaptation, for use by the printing department, of the science laboratories in the old college buildings at Shakespeare Street, estimated cost £6,223; approve in principle for inclusion in the 1960-61 minor works programme the following schemes: Dunkirk Junior and Infant School—school meals accommodation, assembly hall, etc., £20,000; Blue Bell Hill Junior and Infant Schools—improvements to toilets, windows, etc., £14,000; Elms Junior and Infant School—additional classrooms to replace the annex at Alfred School, urgently needed for Further Education purposes, £15,000; Clifton estate—three-classroom unit to accommodate additional numbers, £11,000; Rosehill Special School—improvements suggested in Ministry of Education letter dated Feb. 23, 1959, £4,000; College of Arts and Crafts—additional accommodation, £10,000.

**Oadby, Leics.**—Sheffield Regional Hospital Board recommended to appoint Pick, Everard, Key and Gimson, 6 Millstone Lane, Leicester, architects for recreation room at Mansion House, Stretton Hall.

**Oxford.**—City Council recommended to approve the following schemes for inclusion in the 1960-61 minor buildings programme: Headington Secondary School—extensions, £20,000; school building for infants at Horspath Road, £15,000; Ormerod School—improvements, £2,600.

**Peterborough.**—City Council recommended to approve revised scheme for a pavilion at Chestnut Avenue playing field. Estimated cost £3,500.

**Plymouth.**—City Council recommended to apply for sanction to borrow £2,510 for the provision of a retaining wall at Albert Road, Devonport.

**Poplar.**—B.C. recommended to appoint I. Stinton Jones and Partners, 15 Gloucester Place, London, W.1, as the consulting engineers for the new baths at Sutherland Road, E.3, and the reconstruction scheme for the Island Baths; also recommended to appoint Thomas Barrett Sons and Partner, 50 Pall Mall, London, S.W.1, as the quantity surveyors for a new public convenience at Sutherland Road.

**Portadown, Armagh.**—Ulster Farmers Mart Co., Ltd., 58 Bridge Street, propose the re-fitting of a factory as a cattle mart. Estimated cost £15,000.

**Port Glasgow, Renfrews.**—Wylie, Shanks and Underwood, 12 Clairmont Gardens, Glasgow, C.3, are the architects for a factory to be built by Scottish Industrial Estates, Ltd., 3 Woodside Place, Glasgow, for Playtex, Ltd. James Barr and Son, 213 St. Vincent Street, Glasgow, are the quantity surveyors and Donald Smith, Sevmour and Rooley, 204 West Regent Street, Glasgow, the electrical and heating consultants.

**Portsmouth.**—Wessex Regional Hospital Board have approved in principle, the provision of a 35 bed unit and out-patients' department in the grounds of St. James' Hospital.

**Radcliffe-on-Trent, Notts.**—Sheffield Regional Hospital Board recommended to appoint C. Howitt and Partners, St. Andrews House, Nottingham, architects, and Norman Bleazard, 2-4 Birch Street, Accrington, engineer for sanitary annex in Thornton Ward at Saxondale Hospital, and Wood and Shambrook, Wheeler Gate Chambers, Nottingham, quantity surveyors for sanitary annexes to Ward 13 and enclosure of verandas for tuberculosis wards, at the Hospital.

**Rotherham, Yorks.**—Sheffield Regional Hospital Board recommended to appoint James Tottiv and Co., Carnison House, Moor-gate Road, Rotherham, architects for storage dispensary at Doncaster Gate Hospital.

**Rush, War.**—R.D.C. to invite tenders for the external painting of 294 houses on 24 sites.

**St. Pancras.**—L.C.C. approved a scheme for adaptations and improvements at St. Pancras Hotel. Estimated cost £24,920.

**Salford, Lancs.**—City Council recommended to approve in principle scheme A for rede-

velopment of Broad Street/Ellor Street area which provides for a shopping precinct at Church Street end of site.

**City Council** to appoint Tom Mellor, Church Wood, Church Road, Lytham St. Annes, architect, Hoare, Lea and Partners, 52 Green Street, London, W.1, heating and electrical engineers, Ove Arup and Partners, 8 Fitzroy Street, London, W.1, structural engineers and Langdon and Every, 21 Russell Square, London, W.C.1, quantity surveyors for Royal Technical College Hostels, and Ove Arup and Partners as consultant structural engineers for extensions to Royal Technical College and Peel Park Technical College.

**City Council** recommended to apply for sanction to borrow £30,560 for replacement of obsolete fireplaces in properties on the Weaste housing estate.

**Scarborough, Yorks.**—B.C. recommended to approve plans for erection of 24 lock-up garages at Malvern Crescent, for A. Moore and Son, G. W. Alderson, architect, 4 Pavilion Terrace.

**Sheffield.**—City Council recommended to appoint Wheatley, Bryon and Partners, Ltd., 73 High Holborn, London, W.C.1, structural engineers for erection of school for spastics and extensions at High Storrs Grammar School.

**Regional Hospital Board** recommended to appoint Oxley and Bussey, 91 Pinstone Street, architects for two single-storey villa blocks at Grenoside Hospital, and C. Mackecknie, Jarvis and Partners, 34 Victoria Street, London, S.W.1, consulting engineers for up-grading female patients' detached block and installation of lift at Middlewood Hospital.

**Sidcup, Kent.**—L.C.C. approved a scheme for improvements to accommodation at The Hollies. Estimated cost £3,160.

**Slough, Bucks.**—L.C.C. approved a scheme for the erection and equipment of a hostel for boys at Britwell estate. Estimated cost £26,400.

**Southport, Lancs.**—B.C. recommended to approve revised plans and invite tenders for provision of a new changing room at King George V School.

**Southwark.**—Norman and Dawbarn, 7 Portland Place, London, W.1, have prepared plans for the erection of two additional floors over an existing wing at Borough Polytechnic. Estimated cost £60,090.

**Southwold, Suffolk.**—B.C. recommended to prepare scheme for the provision of a public convenience near the pavilion on the common.

**Spalding, Lincs.**—Sheffield Regional Hospital Board recommended to appoint F. I. Lenton and Partners, 16 Finkin Street, Grantham, architects, and K. H. Bole, 32 Carr Street, Sleaford, quantity surveyor for transfer of X-ray department to laundry block at Johnson Hospital.

**Staines, Middx.**—C.C. recommended to approve the erection of a clinic at Hadrian Way, Stanwell. Estimated cost £11,338.

**Stockport, Ches.**—Ministry have approved scheme for the erection of a training centre at Buxton Road, Chinley, for Derbyshire C.C. Estimated cost £53,150.

**B.C.** recommended to approve site at Canal Bridge Farm estate for the erection of an aged persons' home; prepare alternative sketch plans for the erection of five single-storey lock-up shops and five shops with separate access flats above at Middlesex Road.

**Stoke-on-Trent, Staffs.**—City Council recommended to prepare comprehensive scheme for a community centre and hall at the Broadway site, Meir; approve the erection of public conveniences at junction of Summerville Road and Stone Road; subject to Home Office approval, plans for garages for Civil Defence vehicles at Raymond Street, Hanley. Estimated cost £7,290.

**Stone, Staffs.**—Co. E.C. propose the erection of youth club premises at Stone. Estimated cost £16,950.

**Stretford, Lancs.**—B.C. recommended to grant planning permission for rebuilding and extending premises in King Street, for the Manchester and Salford Trustees Savings Bank, and factory extension, Park Road, for Kellogg Co. of Great Britain, Ltd.

**M.E.** have agreed to add to the 1960-61 major building programme a two-form instalment of a three-form entry Roman Catholic Secondary School for Girls for Stretford. E.C. urged to include the second instalment of this school in the 1961-62 programme.

**Swindon, Wilts.**—B.C. recommended to invite tenders for improvements and repairs to the public swimming baths at Milton Road. Estimated cost £65,000.

**Thornhill-on-Tees, Yorks.**—A. Dicken and Son, (Theeside) Ltd., 54 Mandale Road, are to reconstruct their warehouse.

**Towcester, Northants.**—Brewster Magistrates have granted a licence for the erection of licensed premises at new housing estate, for

the Abington Brewery Co., Wellingborough Road, Northampton.

**Tynemouth, Northumb.**—Newcastle Breweries, Ltd., Haymarket, Newcastle upon Tyne are to erect a public house at the corner of Balkwell Avenue and Verne Road, North Shields and plans by their own architect have been approved; J. Nimmo and Son, Castle Eden, Co. Durham are to erect a public house, to be known at the Magpie at the corner of Hartington Road and Kirklington Road, Marden. The architects are Newrick and Blackbell, 58 John Street, Sunderland.

**Uxbridge, Middx.**—C.C. recommended to approve the erection of additional classrooms and a kitchen at the Breakspear Primary School, Ickenham. Estimated cost £18,584.

**Wallsend, Northumb.**—William Stockdale, 73 Howard Street, North Shields is the architect for shop, bakery, and two houses in flats at 69-79 Park Road, for J. Senior.

Plans have been submitted to the M.E. for the first stage (estimated to cost about £10,000) of alterations and remodelling of St. Aidan's R.C. School at Rosehill. Total cost will be £37,000 and work will begin as soon as Ministry approval is received. D. Brown, 10 Lambton Road, Jesmond, Newcastle upon Tyne, is the architect.

**Walthamstow, Essex.**—B.C. recommended to approve plans for the erection of public conveniences at the Royal Standard junction.

**Walton-on-Thames, Surrey.**—C.C. recommended to approve sketch plans for provision of a practical block and library at County Secondary Boys' School. Estimated cost £19,752.

**Watford, Herts.**—B.C. recommended to approve plans for extension to assembly hall and canteen, Watford Girls' Grammar School, The Crescent, for C.C.

**Westminster.**—City Council recommended to engage Drower and Son, 28 Victoria Street, London, S.W.1, as the quantity surveyors for conveniences proposed at Hyde Park Corner, total estimated cost £67,100; and as the quantity surveyors for a new depot proposed at 21-23 Farm Street for the Public Cleansing Department.

**West Suffolk.**—Standing Joint Committee have approved revised scheme for a police station and courthouse at Haverhill. Estimated cost £30,250.

**Whickham, Dur.**—M. Grady, Ltd., Broadwood Road, Newcastle upon Tyne are to erect four shops and flats, at Swalwell. Wetherell Lamb and Partners, architects, Picton Place, Newcastle upon Tyne.

**Whiteabbey, Antrim.**—The Hospitals' Authority have approved in principle a scheme for the reconstruction of the main hospital block at Whiteabbey Hospital, for Newtownabbey Hospital Management Committee.

**Whyteleafe, Surrey.**—C.C. recommended to approve sketch plans for the provision of small hall/dining room, 450-meal kitchen and boiler house at County Girls' School. Estimated cost £29,502.

**Wimbledon, Surrey.**—C.C. recommended to approve sketch plans for the provision of new kitchen and small hall/dining room at County Girls' School. Estimated cost £29,414.

**Weymouth, Dorset.**—B.C. recommended to approve in principle the erection of a factory (to be leased to C. and J. Clark, Ltd., Street, Som.) at Chickereil Industrial Estate, estimated cost £75,000; apply for sanction to borrow £8,000 for the provision of public conveniences to serve both the car park at Lodmoor and the chalets at the Sluice Gardens.

**Co. E.C.** have approved scheme for extensions at the Training College, to provide additional teaching and hostel accommodation. Estimated cost £45,704.

**Worcester.**—City Council recommended to approve the appointment of Wilson, Colbeck and Partners, 86 Old Brompton Road, London, S.W.7, as quantity surveyors, for improvements to sanitary accommodation at St. John's Boys' School.

**Workington, Cumb.**—B.C. recommended to approve layout of site for maintenance depot on the Moorclose estate.

**B.C.** recommended to approve plans for erection of a three-class primary school at Satterbeck, for the Cumberland C.C.

**Workson, Notts.**—Sheffield Regional Hospital Board recommended to appoint Messrs. Gleds, 7 Clinton Terrace, Doncaster, quantity surveyors for new laboratory and out-patient department at Victoria Hospital.

#### ELECTRICAL

**Barnsley, Yorks.**—Sheffield Regional Hospital Board recommended to appoint Fairhurst and Poppleton, 7 Regent Street, architects for lift replacement at Beckett Hospital.

**Caistor, Lincs.**—Sheffield Regional Hospital Board recommended to appoint Vallance, Westwick and Associates, White Hart Street, Mansfield, architects for chair lift at Caistor Hospital.

**Lincoln.**—Sheffield Regional Hospital Board recommended to appoint E. G. Phillips, Son

and Partners, 26 Annesley Grove, Nottingham, consulting engineers for a.c./d.c. change-over at Brace Bridge Heath Hospital.

**Sheffield.**—Regional Hospital Board recommended to appoint J. D. Maidment, Pembroke House, Palmerston Road, architect for bed lift in Cliff Ward at Nether Edge Hospital, and Oxley and Bussey 91 Pinstone Street, architects for lift in female patients' main block at Middlewood Hospital.

**Sheffield, Lincs.**—Sheffield Regional Hospital Board recommended to appoint Vallance, Westwick and Associates, White Hart Street, Mansfield, architects for a.c./d.c. change-over at Rauceby Hospital.

**South Shields, Dur.**—E.C. proposes including £950 in its annual estimates for the electric rewiring of the infants' department of Staphope County School.

#### GAS AND WATER SUPPLY

**Barnack, Peterborough.**—R.D.C. to prepare scheme for pumping water from the Pilsgate bore to serve Wittering.

**Blyth, Suffolk.**—R.D.C. have submitted to C.C. for approval and grant aid a water supply scheme for the Sizewell nuclear power station. Estimated cost £174,000.

**Dewsbury, Yorks.**—B.C. recommended to apply for sanction to borrow £3,454 for laying water mains at St. Michael's Close, etc.

**Gipping, Suffolk.**—Co. Water Supplies and Sewerage Committee have approved for grant purposes scheme for laying water mains in the rural area. Estimated cost £115,600.

**Reeth, Yorks.**—R.D.C. submitting to the Ministry water supply schemes for Upper and Lower Swaledale. W. K. Rodwell, consulting engineer, 40 North Street, Wetherby. Estimated cost £150,000.

**Workington, Cumb.**—B.C. recommended to approve the laying of 310yd. of 4in. water main in Ellerbeck Lane. Estimated cost £1,218.

#### HARBOURS, PIERS AND SEA DEFENCE WORKS

**Montrose, Angus.**—Harbour Board propose to repair a dock wall. Estimated cost £30,000.

**Scarborough, Yorks.**—B.C. recommended to apply for sanction to borrow £11,715 for extension of high level sea wall and promenade at Holbeck.

#### HEATING AND VENTILATING

**Bakewell, Derbys.**—Sheffield Regional Hospital Board recommended to appoint L. Fletcher, North Church Street, Bakewell, quantity surveyor for reorganisation of engineering services at Newholme Hospital.

**Barnsley, Yorks.**—Sheffield Regional Hospital Board recommended to appoint Fairhurst and Poppleton, 7 Regent Street, architects and R. F. Aldis, St. Mary's Road, Long Ditton, Surrey, consulting engineer for central heating Harvey and Lambert wards and hot water services for kitchen and operating theatre at Beckett Hospital.

**Cardiff.**—City Council recommended to approve scheme for the provision of new heating apparatus and boiler plant at Guildford Crescent Baths. Estimated cost £12,160.

**Derby.**—Sheffield Regional Hospital Board recommended to appoint Young and Hall, 9 Southampton Row, London, W.C.1, architects for replacement of boiler at City Hospital.

**Dewsbury, Yorks.**—Edward A. Pearce and Partners, 28 Baker Street, London, W.1, are the consulting engineers for heating, electrical and mechanical works for new baths.

**Humberstone, Leics.**—Sheffield Regional Hospital Board recommended to appoint Pick Everard, Keay and Gimson, 6 Millstone Lane, Leicester, architects for additional steam mains at The Towers Hospital.

**Leicester.**—Sheffield Regional Hospital Board recommended to appoint Pick Everard, Keay and Gimson, 6 Millstone Lane, Leicester, architects, for heating and hot water services at Royal Infirmary Maternity Hospital.

**Mansfield, Notts.**—Sheffield Regional Hospital Board recommended to appoint A. E. Thornton-Firkin and Partners, Masons Chambers, Low Pavement, Chesterfield, quantity surveyors for central heating and replacement of gas boiler at Forest Hospital.

**Mexborough, Yorks.**—Sheffield Regional Hospital Board recommended to appoint James Totty and Co., Carnson House, Moorgate Road, Rotherham, architect for alterations to boiler plant and services at Montagu Hospital.

**Millford, Derbys.**—Sheffield Regional Hospital Board recommended to appoint G. M. Atkinson and Associates, Jade Glen Chambers, Grosby, Leicester, heating consultant for improvements to heating at Makeney House.

**Rotherham, Yorks.**—Sheffield Regional Hospital Board recommended to appoint James Totty and Co., Carnson House, Moorgate

Road, architects for central heating blocks A, B and part E at Moorgate General Hospital.

**Sheffield.**—Regional Hospital Board recommended to appoint Oxley and Bussey, 91 Pinstone Street, architects for central heating in administration and male patients' block at Grenoside Hospital, and C. Mackechnie, Jarvis and Partners, 34 Victoria Street, London, S.W.1, consulting engineers for reorganisation of engineering services in female block at Middlewood Hospital.

#### HOUSING SCHEMES

**Aberdeen.**—City Council approved, in principle, a housing scheme at Hazelhead. The plan includes 320 dwellings in eight multi-storey blocks, 250 terraced houses, shops and garages.

**Andover, Hants.**—Borough Surveyor to prepare detailed plans for 12 old people's bungalows at the Drove allotments.

**Barnack, Peterborough.**—Air Ministry propose the erection of another 365 houses for Air Force personnel at Wittering.

**Bishop Auckland, Dur.**—U.D.C. considering the erection of a further 115 houses for employees of a local firm.

**Boldon, Dur.**—Plans approved for four pairs of houses at Lyndon Drive, East Boldon, for R. J. Edwards and Co., Ltd., 18 Frederick Street, Sunderland.

**Bolton, Lancs.**—B.C. recommended to approve plans for erection of 64 bungalows (semi-detached), Torrion Road, Carron Grove, Lovat Road and Rannoch Road, for A. D. Primrose, 556 Halliwell Road.

**Bournemouth, Hants.**—B.C. propose the erection of 106 dwellings during 1960/61.

**Brandon, Dur.**—U.D.C. to borrow £5,395 for the erection of four bungalows.

**Carlisle, Cumb.**—City Council recommended to invite tenders for erection of a further 100 houses on the Morton estate.

**Charlton Kings, Glos.**—U.D.C. to apply for sanction to borrow £7,443 for the erection of six one-storey flats at Little Herberts.

**Chatham, Kent.**—B.C. recommended to approve, subject to conditions, plans for 42 semi-detached houses and garages at Ingle Road extension, for C. J. Howard and Son, Ltd., c/o J. A. Warner, 12 High Street, Rochester; block of 24 flats, two blocks of garages and layout of private access road to flats at site adjoining Berkeley Mount, Old Road, for Wards Construction (Medway), 360 Canterbury Street, Gillingham.

**Dawley, Salop.**—U.D.C. recommended to grant planning permission for the erection of 26 houses and bungalows at Malvern Crescent, for Lewis Bros. (Wedgefield), Ltd., 10 Blackhalve Lane, Wolverhampton.

**Dewsbury, Yorks.**—B.C. recommended to approve sketch plan for erection of 12 bungalows at The City, Whitley, and reserve site for erection of public conveniences and bus passenger shelter.

**Durham.**—City Council to build 10 bungalows at Bent House Lane.

**East Retford, Notts.**—B.C. propose the erection of 40 houses at West Field estate, six at junction of Northfield Way and West Furlong, six at Moorgate Hill and eight on sites near the town centre during this year.

**Edinburgh.**—City Council have approved the erection of three 16-storey blocks of houses in the Leith redevelopment area.

**Freebridge Lynn, Norfolk.**—R.D.C. to negotiate a tender with Hall and Jex, Ltd., 29 Baldwin Road, King's Lynn, for the erection of four bungalows at Castleacre.

**Higham Ferrers, Northants.**—B.C. propose the erection of six bungalows and a block of six flats at Elizabeth Way.

**Huntingdon.**—R.D.C. recommended to approve layout plans for 12 Homeville type bungalows and eight flats at Brampton and three pairs of bungalows at Great Stukeley.

**Ilford, Essex.**—B.C. recommended to approve plans and invite tenders for the conversion of 59 Eastwood Road into six bed-sitting rooms and one maisonnette. Estimated cost £7,500.

**Lancaster, Dur.**—J. Biggam, Back Albert Road, Consett, is to erect 36 houses at Wesley Terrace, Castleside, to plans by Eltringham and Lowes, Derwent Street, Blackhill.

**Newcastle-under-Lyme, Staffs.**—B.C. propose the erection of 150 dwellings at George Street, 28 at New Street, 87 at Hempstalls Lane and 29 at Park Road, Silverdale, during the year.

**Newent, Glos.**—R.D.C. have approved plans for 44 houses and 14 bungalows with private garages at The Holts, for H. C. Janes, Ltd., 189 High Town Road, Luton.

**Newcastle upon Tyne.**—Plans prepared by the City Architect for the erection of 270 multi-storey flats in three blocks on the Eastfield Avenue site.

**Oxford.**—G. Wimpey and Co., Ltd., have submitted to City Council for planning permission scheme for the erection of 81 flats and maisonnettes on the site of Cowley Vicarage.

**Salisbury and Wilton, Wilts.**—Ministry have approved the erection of 49 dwellings at Winterslow, Broad Chalke, Whiteparish, Laverstock, Compton Chamberlayne, Redlynch and Berwick St. James, for R.D.C.

**Scarborough, Yorks.**—B.C. recommended to approve the erection of 12 houses in Filey Road and five off Filey Road, for M. J. Liddell and Son, Ltd., Wilkinson, Smith and Brittlebank, architects, Martins Bank Chambers, Scarborough; conversion of hotel into 10 flats, 25-26 Esplanade, for Argyll Hotel, Ltd. G. W. Alderson, architect, 4 Pavilion Terrace.

**Shipston-on-Stour, War.**—R.D.C. have approved revised scheme for two blocks of four two-bedroom flats and six garages at Cherington.

**Stroud, Glos.**—U.D.C. to prepare sketch plans for old people's bungalows at Uplands.

**Sunderland, Dur.**—W. and T. R. Milburn 4 Grange Terrace, have prepared a scheme for the erection of houses on two areas of land comprising nearly 10 acres and 13 acres at East Herrington, near Sunderland.

**Walthamstow, Essex.**—B.C. recommended to approve scheme for the conversion of 50 The Avenue, into two flats. Estimated cost £1,796.

**Wandsworth.**—B.C. recommended to approve proposals for redevelopment of the Streatham High Road (No. 2) site by erection of a three-storey block of 26 dwellings, and to appoint C. E. Smart and Partners, 42 Theobalds Road, London, W.C.1, as the quantity surveyors.

**Watford, Herts.**—B.C. recommended to approve plans for the erection of a pair of houses for park-keepers at Cassiobury Park.

**Whickham, Dur.**—U.D.C. to build 69 houses at Athol Street and Victoria Street, Dunston. Fennell and Baddiley, architects, Bridge End Chambers, Chester-le-Street.

**Whitby, Yorks.**—U.D.C. architect, J. S. Houghton, 9 Skinner Street, has prepared plans for the redevelopment of Haggarsgate, including the erection of seven maisonnettes, 14 flats and two shops. A number of two-bedroom houses are proposed below Abbot's Walk.

**Workington, Cumb.**—B.C. propose the erection of eight one-bedroom bungalows at Pearl Road, Salterbeck.

**Wrexham, Denbighs.**—B.C. have approved a development plan on traditional lines for Actor Park estate. It provides for 386 houses, 225 garages, 48 flats, plus sites for 343 private dwellings.

#### PLAYING FIELDS, PARKS, ETC.

**Boston, Lincs.**—B.C. recommended to approve scheme for the provision of a bowling green near Forbes Road on the Wood Farm estate. Estimated cost £1,250.

**Salisbury, Wilts.**—City Council have approved the provision of a running track at Fisherton recreation ground. Estimated cost £9,000.

**Stretford, Lancs.**—B.C. recommended to apply for sanction to borrow £2,400 for provision of miniature golf course in Longford Park.

#### ROADS, BRIDGES AND SITE WORKS

**Aldridge, Staffs.**—U.D.C. recommended to approve scheme for the improvement of Dumblederry Lane from the junction with Barns Lane to Westgate. Estimated cost £29,000.

**Andover, Hants.**—B.C. to prepare plans for the completion of street works in Mead Road.

**Bangor, Down.**—B.C. have approved the construction of a ring road, to be completed in 10 years. A contract for the section between Newtownards Road and Bloomfield Road, is to be placed soon. Estimated cost £112,000.

**Barry, Glam.**—B.C. recommended to approve scheme for the provision of pathways and adequate water supply, etc., and other works incidental to the improvement of Palmerstown Road allotments. Estimated cost £1,500; following schemes for inclusion in the 1960/61 road programme: Cardiff Road—classified improvement, £15,000; bridge at Paget Road—classified improvement, £1,500; Little Robins Lane—widening, £4,000; David Street—access road, £2,500; Lakeside—widening, £3,000 and Claude Road—widening, £4,000.

**Billingham-on-Tees, Dur.**—U.D.C. Surveyor to prepare a scheme for the reconstruction and redesign of Central Avenue.

**Boston, Lincs.**—B.C. recommended to approve scheme for the improvement of South Street. Estimated cost £30,000.

**Cardiff.**—City Council recommended to prepare plans for the improvement of a length of Fairwater Road, from Pwllmelin Road to Cardiff Road.

**Chatham, Kent.**—B.C. recommended to invite tenders for paving works at Weeds Wood estate; approve plans for making-up Frederick Street (part) and proposal for the widening at Rochester boundary in conjunction with the



reconstruction of New Road Avenue between Hamond Hill and Rochester boundary.

**Dewsbury, Yorks.**—B.C. recommended to approve plan, etc., for reconstruction of St. Matthews Road, Westtown, estimated cost £1,000; to apply for sanction to borrow £14,000 for repairs to footpaths in the town centre over a period of three years.

**Ilford, Essex.**—B.C. recommended to approve scheme for the extension of the existing car parking area at Craven Gardens to provide an additional 190 car spaces. Estimated cost £7,500.

**Newport, Mon.**—B.C. recommended to approve scheme to replace the ash forecourts of 74 garages with hardcore and tarmac, estimated cost £2,849; following schemes for inclusion in the 1960-61 programme: completion of roads and sewers at Ringland, contract 5, £77,000; completion works phase I and advance preparation works, phase III at Bettws estate £15,000 and £40,000 respectively; invite tenders for advance preparation works at section two of the Bettws neighbourhood unit, £117,300; apply for sanction to borrow £7,000 for the Cardiff Road improvement scheme.

**Nottinghamshire.**—C.C. have approved scheme for the construction of a dual carriage highway along The Fosse Way.

**Rugby, War.**—R.D.C. recommended to apply for sanction to borrow £2,000 for estate roads extension works at Dunchurch and Wolston.

C.C. recommended to approve scheme for widening Sheep Street. Estimated cost £5,000.

**Stanley, Dur.**—U.D.C. to spend £46,000 on the construction of roads and sewers to serve 188 proposed houses and 56 garages at Lintz. Tenders will be invited shortly for the erection of the first batch of houses under the scheme. The quantity surveyors are J. W. Summers and Partners, 33 Jesmond Road, Newcastle upon Tyne.

**Stockton-on-Tees, Dur.**—Borough Engineer to prepare plans for further roads and sewers in the Victoria area.

**Tynemouth, Northumb.**—B.C. to spend £10,000 extending Preston Cemetery.

#### SEWERAGE, SEWAGE AND REFUSE DISPOSAL

**Barnack, Peterborough.**—R.D.C. preparing an extension to the Wittering sewerage scheme.

**Barnet, Herts.**—U.D.C. have approved drainage scheme to relieve the flooding of houses at East View. Estimated cost £6,700.

**Billingham-on-Tees, Dur.**—U.D.C. to consider £11,400 scheme for improving the sanitation at Cowpen Bewlay.

**Cheltenham, Glos.**—R.D.C. recommended to proceed with the preparation of sewerage schemes for the villages of Laverton and Dumbleton.

**Consett, Dur.**—U.D.C. to carry out a sewerage scheme at Iveston to cost £7,400.

**Dewsbury, Yorks.**—B.C. recommended to apply for sanction to borrow £1,065 for laying of foul sewer in Whitley Road.

**Dorchester.**—B.C. recommended to instruct A. P. I. Cotterell and Son, consulting engineers, 54 Victoria Street, London, S.W.1, to proceed with the preparation of plans and sections for the construction of the 18in. outfall sewer from Little Britain to Lounds Mill, forming part of stage II of the sewerage and sewage disposal scheme.

**Forehoe and Henstead, Norfolk.**—Ministry have approved in principle, scheme for the provision of sewerage facilities for Hethersett and Cingleford, for R.D.C. Estimated cost £141,000.

**Llanfyllin, Monts.**—R.D.C. to prepare a detailed sewerage scheme for Llanfechain.

**Lothlingland, Suffolk.**—Co. Water Supplies and Sewerage Committee have approved for grant aid, R.D.C.'s sewerage scheme for Lound. Estimated cost £16,800.

**Richmond, Yorks.**—R.D.C. to apply for sanction to borrow £19,611 for a sewerage scheme to serve the Darlington Road area.

**Samford, Suffolk.**—Co. Water Supplies and Sewerage Committee have approved for grant aid, R.D.C.'s revised sewerage scheme for Holbrook. Estimated cost £52,250.

**West Kesteven, Lincs.**—R.D.C. have approved, subject to Ministry approval, sewerage and sewage disposal scheme for Long Bennington. Estimated cost £80,000.

#### STREET LIGHTING.

**Glen Parva, Leics.**—Parish Council recommended to approve scheme for improvement of street lighting in Little Glen Road. Estimated cost £1,702.

**Hampstead.**—Supply of following, for B.C.: Sodium discharge lanterns, General Electric Co., Ltd., Magnet House, Kingsway, London, W.C.2, £3,313; lamp columns and installation of equipment, O. C. Summers, Ltd., 111 York Way, London, N.7, £18,502 (both recommended).

**Jarrow, Dur.**—B.C. recommended to approve two sodium street lighting schemes. These include Valley View and Primrose Terrace (£3,622), and High Street (£8,461).

**Leek, Staffs.**—U.D.C. to apply for sanction borrow £2,316 for extending the electric lighting in Cheadle Road to the urban boundary; invite tenders for the provision of electric lighting in Buxton Road to the Moss Rose, estimated cost £4,000; approve the conversion from gas to electricity of street lighting in Hillswood Avenue and Nahill Avenue, £1,877; provision of electric lighting in Westwood Drive and Springfield Road, £900 and £756 respectively.

**Sandy, Beds.**—U.D.C. to prepare alternative street lighting schemes for the trunk and other main roads in the area.

## CONTRACTS

Full details of the Contracts marked \* will be found in our Advertisement Columns.

### BUILDING AND DECORATING (See also Housing Schemes)

**Aberdeenshire.**—Modernisation of sanitary accommodation and alterations to existing building, Longhaven Primary School, Longhaven, for C.C. Following trades: Mason work; carpenter and joiner works; plumber work; plaster work; electrical work; painter and glazier works. Applications to Jenkins and Marr, architects, 3 Bon-Accord Crescent, Aberdeen, by Feb. 22. Tenders by March 7.

**Altrincham, Ches.**—External painting to 41 houses and 28 two-storey flats on the urban estate, for B.C. Documents from the Surveyor, Town Hall, Altrincham. Tenders by Feb. 26.

**Amersham, Bucks.**—External redecoration for houses on sites varying from eight to 54 houses in various parts of the area, for R.D.C. Applications to J. Godbehere, engineer and surveyor, Elmdon House, 42 High Street, Amersham, by Feb. 29.

**Ashton-in-Makerfield, Lancs.**—Covering with bituminous felt the outbuildings of certain Council houses, for U.D.C. Documents from the Surveyor, Town Hall, Ashton-in-Makerfield. Tenders by Feb. 26.

**Belfast.**—Construction of an extension to the factory of Tir-Oen, Ltd., at Broadway, Donegall Road, for Ministry of Commerce. Documents from the Ministry, Room 33, Chichester House, 64 Chichester Street, Belfast. Deposit £3. Tenders by March 4.

**Belfast.**—Supply and fixing of purpose made aluminium alloy windows at petty sessions courts, Chichester Street, for Ministry of Finance. Documents from Room 103, Law Courts Building, Belfast, 1. Tenders by Feb. 24.

**Belford, Northumb.**—Erection of a public convenience at Benthall, Beadnell, for R.D.C. Documents from W. R. Kirk, surveyor, Council Offices, Belford. Tenders by Feb. 26.

**Beverley, Yorks.**—External painting of 97 houses, as follows, for B.C.: (Contract 1) 39 houses on Swinemoor estate; (2) 58 houses, Holderness Crescent. Documents from the Borough Engineer and Surveyor, Municipal Offices, Laigate, Beverley. Tenders by March 5.

**Birmingham.**—Construction of an administrative building comprising of lavatories, first aid room, messroom and shelter, at Sarehole Mill recreation ground, Hall Green. Documents from the General Manager, Parks Department, Civic Centre, Broad Street, Birmingham, 1. Deposit £2 2s. Tenders by Feb. 29.

**Blofield and Flegg, Norfolk.**—External painting of 426 Council houses and bungalows in various parts of the district, for R.D.C. Documents from the Housing Manager, Council Offices, Acle. Tenders by Feb. 29.

**Brecknock, Brecons.**—Erection of a new Council chamber and extension to the existing office accommodation at the Council's Offices, Oxford House, The Watton, for R.D.C. The total area of the extension is approximately 4,000 super. ft., i.e., 2,000 super. ft. on each of two storeys. Documents from Merton Jones and Richards, architects, St. Mary's Chambers, Abergavenny. Deposit £3 3s. (cheques payable to R.D.C.). Tenders by March 17.

**Bury, Lancs.**—External painting of the Market Hall, for B.C. Documents from the Borough Engineer, Town Hall, Bury. Tenders by Feb. 26.

**Bury, Lancs.**—Pointing and repair of stonework to the dome of the Market Hall, for B.C. Documents from the Borough Engineer, Town Hall, Bury. Tenders by Feb. 26.

**Cardiganshire.**—Construction of two new laboratories, four new classrooms, new stage and alterations to the fabric of the existing school at Llandysul Grammar School, for C.C.

Documents from the County Architect, County Hall, Aberayron. Deposit £2 2s. Tenders by March 22.

**Cheadle, Staffs.**—Erection of one block of two shops with two flats over at Kingsway, Weston Coyney, for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Leek Road, Cheadle. Tenders by March 9.

**Cookstown, Tyrone.**—Extensions to Daintiff Brassiere Co. and Ulster Corset Manufacturing Co. factories at Burn Road. Documents from John A. Tynan, quantity surveyor, 33 Malone Road, Belfast. Deposit £5 5s. Tenders by Feb. 24.

**Cornwall.**—Sub-contract for structural steelwork in connection with the proposed erection of a new fire station at Camborne, for C.C. Applications to the County Architect, County Hall, Truro, by Feb. 20.

**Down.**—Supply and erection complete of the steelwork in Banbridge (New) Technical Intermediate School, for Co. E.C. Documents from the architects, R. Ferguson and S. McIlveen, 15 College Gardens, Belfast, 9. Deposit £3 3s. Tenders by Feb. 25.

**East Ashford, Kent.**—Erection of garage building at the Council Depot, Wye, for R.D.C. Documents from the Surveyor, Council Offices, 8 Elwick Road, Ashford. Tenders by Feb. 29.

**East Suffolk.**—Erection of extensions of some 30,000 sq. ft. floor area plus alterations to the existing buildings, at Kesgrave Modern School, for C.C. Applications to the County Architect, County Hall, Ipswich, by March 3. Tenders by April 7.

**Edinburgh.**—Demolition, upfilling and concrete work at disused siding, Balcarres Street cleansing depot, for City Council. Documents from the Engineer and Manager, Lighting and Cleansing Department, 329 High Street, Edinburgh. Tenders by Feb. 24.

**Ellesmere Port, Ches.**—Erection of 28 lock-up garages and site works, site 7 and extension, Mill Lane/Overpool Road, contract 289, for B.C. Documents from the Engineer and Surveyor, Queen Street, Ellesmere Port. Tenders by Feb. 29.

**Ellesmere Port, Ches.**—Erection of 25 lock-up garages and ancillary works, together with site works, at Atherton Road, site 4, contract 288. Documents from the Engineer and Surveyor, Queen Street, Ellesmere Port. Tenders by Feb. 29.

**Essex.**—Following, for C.C.: (1) Building work in connection with sewage purification plant, estimated cost £2,200 at the Children's Home, Evebrook, Sandon; (2) a new assembly hall in brick and steel-framed construction, and alterations to existing buildings, and external works, estimated to cost £34,500, at the Billericay County Secondary School. Applications to H. Conolly, architect, County Hall, Chelmsford, by Feb. 20.

**Fareham, Hants.**—Construction of a canteen, size 48ft. long by 20ft. wide and 11ft. high at Fareham abattoir, for Wessex Slaughterhouses Board. Applications to the office of the Engineer to the Board, Westbury Manor Fareham, Hants. Deposit £2. Tenders by March 3.

**Gravesend, Kent.**—Improvements to 301 properties on Kings Farm estate, for B.C.: (a) (1) Removal of old kitcheners and the installation of tiled surrounds and open fires with back boilers; (2) converting certain direct hot water systems to indirect; (3) removing certain brick coppers; (4) providing lavatory basins, replacing certain baths and replacing certain sinks. (b) Provision of an electrical heating circuit and one lighting point to the majority of these properties. Documents from the Engineer and Surveyor, 6 Woodville Terrace, Gravesend. Tenders by March 14.

**Halifax.**—Kitchen alterations at Farfield residential establishment, for B.C. Applications to the Borough Engineer, Crossley Street, Halifax, by Feb. 29. Deposit £1, cheques payable to Corporation.

**Hambledon, Surrey.**—External painting to Council dwellings as follows, for R.D.C.: Twenty-one at Alford; 40 at Chiddingfold; 10 at Churt; eight at Cranleigh; four at Dockenfield; four at Ewhurst; 17 at Milford; six at Shamley Green; 77 at Witley. Documents from the Engineer and Surveyor, Council Offices, Bury Fields, Guildford. Deposit £1 1s. (cheques payable to the Council, crossed Lloyds Bank, Ltd., and sent to the treasurer, Council offices). Separate tenders are required for each group of dwellings, as set out on the form of tender, and contractors may tender for one or more groups. Tenders by March 7.

**Hambledon, Surrey.**—Alterations, repairs and general maintenance works to block of garages to house nine vehicles at the public health depot, Alford Road, Cranleigh, for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Bury Fields, Guildford. Deposit £2 2s., cheques payable to R.D.C. Tenders by March 7.

**Hampshire.**—Erection of kitchen (approx. area 1,550 sq. ft.) and ancillary works at



**Farnborough Grammar School**, for C.C. Applications to W. H. Saunders and Son, architects, 22 Brunswick Place, Southampton, by March 1. Deposit £1 ls., cheque payable to County Treasurer.

**Harrogate, Yorks.**—Following, for B.C.: (1) External painting 321 houses; (2) painting 714 lamp pillars in the Otley Road to Parliament Street area. Documents from C. E. Fellows, borough engineer, Municipal Offices, Harrogate. Tenders by Feb. 25.

**Harrogate, Yorks.**—Erection of one block of public conveniences (all trades) at Devonshire Place, for B.C. Documents from the Borough Engineer, Municipal Offices, Harrogate. Tenders by Feb. 26.

**Hertford.**—External painting of 95 Council houses and 10 garages, situated in seven parishes, or any group of these houses, for R.D.C. Documents from the Housing Manager, Council Offices, Wallfields, Pegs Lane, Hertford. Tenders by March 14.

**Higham Ferrers, Northants.**—External painting of 57 houses in the Borough of Higham Ferrers, for B.C. Documents from Borough Surveyor, Town Hall, Higham Ferrers. Tenders by March 12.

**Hitchin, Herts.**—Supply and erection of 73 garages, for U.D.C. Deposit £2 2s. Tenders by March 11.

**Hull.**—Internal painting at various schools during the Easter vacation, for City Council. Documents from the City Architect, Guildhall, Kingston-upon-Hull. Tenders by March 2.

**Ilkeston, Derbys.**—Repainting 552 houses, for B.C. Tenders by March 7.

**Inverness-shire.**—Reconstruction of a section of the Kyleakin-Portree Road, route A.850, Skye, for C.C. The length of the section is approx. 3.75 miles and will comprise an 18ft. carriageway, including a 96ft. span arch bridge. Documents from the office of the County Surveyor, County Buildings, Inverness. Deposit £3. Tenders by Feb. 26.

**Isle of Wight.**—Extensions, etc., to the piggeries at the West Wight Secondary School, Freshwater, for C.C. Documents from the County Architect, County Hall, Newport, Isle of Wight, by Feb. 19. Deposit £1 ls. Tenders by March 11.

**Kesteven.**—Provision of a new kitchen at Heckington C. of E. School (Controlled), for C.C. Submit names to the County Architect, County Offices, Sleaford, Lincs., by Feb. 22. Tenders by March 14.

**Kirkcaldy.**—Construction and erection of glasshouses and boiler-house at Ravenscraig Park Nurseries, for B.C. Documents from the Parks Superintendent, Town House, Kirkcaldy. Tenders by Mar. 14.

**Lincoln.**—Provision of new kitchen to Heckington C. of E. School, for C.C. Applications to the Architect, County Offices, Sleaford, by Feb. 22. Tenders by March 14.

**Lindsey.**—Completion of the following, for C.C.: (a) Two-form entry infants' school, Heapham Road, Gainsborough, containing approx. 7,000ft. super. floor area; (b) extension to Gainsborough Technical College, containing approx. 11,400ft. super. floor area; (c) extensions to Barton-on-Humber Grammar School, containing approx. 10,500ft. super. floor area. Documents from A. Ronald Clark, county architect, County Offices, Lincoln. Deposit £3 3s. each (cheque). Tenders by March 17.

**Louth, Lincs.**—External painting of 178 houses, to be let in five contracts, and tenders may quote for any or all of the contracts, for B.C. Documents from the Housing Manager, 41 Eastgate, Louth. Tenders by Feb. 29.

**Luton, Beds.**—Erection and completion of proposed science block and enclosure of existing swimming bath, Luton High School, for B.C. Documents from Borough Architect, Town Hall, Luton. Tenders by March 11.

**Malden and Coombe, Surrey.**—External decorations to Council properties, for B.C. The work consists of external painting of two-storey houses and three- and four-storey flats, and will be divided into contracts not exceeding £500 in value. Applications to John Apse, engineer, Municipal Offices, New Malden, by March 7.

**Manchester.**—Painting and decorating at various schools, for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by March 4.

**Manchester.**—Erection of five shops and five maisonnettes at Peel Hall neighbourhood, Wythenshawe, for City Council. Documents from City Architect, P.O. Box 488 Town Hall, Manchester. Tenders by Feb. 26.

**Manchester.**—Supply and erection of metal balustrades at Moston College of Further Education, for City Council. Tenders by March 2.

**Manchester.**—Cleaning and painting of approx. 3,800 steel standards and 2,700 cast-iron pillars. The work is to be divided into three contracts, for City Council. Documents from the City Surveyor, Town Hall, Manchester, 2. Tenders by Feb. 29.

**Manchester.**—Erection of a public convenience at Hunters Lane, Gorton, for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by March 2.

**Manchester.**—Alterations to Withington Library, for City Council. Tenders by March 9.

**Manchester.**—Following, for B.C.: (a) Part demolition and alterations to boiler house; (b) scaling and cleaning concrete water supply tank and demolition of cast-iron water tanks, at Langho Colony. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by Feb. 26.

**Martley, Worcs.**—External painting of 48 Council houses, for R.D.C. Documents from the Surveyor, 1 The Tything, Worcester. Tenders by March 11.

**Merioneth.**—Erection of a canteen/kitchen at Melin-y-Wig Primary School, near Corwen, for E.C. Documents from the Architect, County Offices, Lombard Street, Dolgellau. Tenders by March 1.

**Mildenhall, Suffolk.**—Painting Council houses in the parishes of Barton Mills, Brandon, Gazeley, Freckenham, Lakenheath, Mildenhall (High Town, Beck Row, Holywell Row and West Row), Moulton, Tuddenham, Worlington, for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Mildenhall. Tenders by March 28.

**Montgomeryshire.**—Erection of a new primary school at Bausley, for C.C. Documents from Director of Education, Education Offices, Newtown. Deposit £2 2s. Tenders by Feb. 29.

**Morecambe and Heysham.**—Erection of a shelter at Half Moon Bay, for B.C. Documents from the Borough Engineer, Council Offices, Morecambe. Deposit £1. Tenders by March 7.

**Oxfordshire.**—List of approved contractors for the carrying out of repairs, etc., to small-holdings properties from time to time, for the Smallholdings Committee. Firms should submit their names to the County Land Agent, Park End Street Offices, Oxford, together with a statement of the maximum distance from their place of business at which they are prepared to work and giving the names and addresses of two land agents or architects to whom reference may be made. Contractors whose names are already on the list need not make a fresh application.

**Newbury, Berks.**—Installation of lavatory basins and alterations to rear entrance in respect of 1-8 Downend, Chieveley, for R.D.C. Documents from Surveyor, Phoenix House, Newbury. Tenders by March 1.

**Newcastle upon Tyne.**—Construction of a rest room at the West Road Crematorium, for City Council. Applications, in writing, to the City Architect, 18 Cloth Market, Newcastle upon Tyne, 1. Tenders by March 8.

**Norfolk.**—Erection of a new house, set of farm buildings, and adaptations to existing houses and buildings, at Gayton, for C.C. Applications to the County Land Agent, 20 Hill House Road, Norwich. Tenders by Feb. 22.

**Nottingham.**—Formation of a kitchen at The Clifton Hall Girls' Grammar School, for City Council. Documents from R. M. Finch, engineer and surveyor, the Guildhall, Nottingham. Deposit £2. Tenders by March 9.

**Ormskirk, Lancs.**—Provision and erection of steelwork for roof, Victoria Water Tower, for U.D.C. Documents from the Surveyor, Council Offices, Burscough Street, Ormskirk. Tenders by Feb. 26.

**Rugby.**—Modernisation of 100 houses at Croop Hill estate, for B.C. Deposit £2 2s. Tenders by March 1.

**Salisbury, Wilts.**—Construction of a public convenience and all ancillary works at Old Sarum open space, off Stratford Road, for City Council. Documents from the City Engineer, The Council House, Salisbury. Tenders by March 14.

**Shipley, Yorks.**—Demolition of the existing buildings, site clearance and the erection of four shops and maisonnettes at Leeds Road, for U.D.C. Documents from the Surveyor, Town Hall, Shipley. Deposit £5 5s. Tenders by March 4.

**Sidmouth, Devon.**—Proposed alterations and renovations public conveniences, The Market, for U.D.C. Applications to the Engineer and Surveyor, Council Offices, Sidmouth, by Feb. 23.

**Sidmouth, Devon.**—External painting of council houses, for U.D.C. Documents from the Engineer and Surveyor, Council Offices, Sidmouth. Tenders by Feb. 29.

**Southampton.**—Erection of pavilion at Stoneham Lane (west side), for B.C. Applications, in writing, to Borough Architect, Civic Centre, Southampton, by Feb. 20.

**Southampton.**—Conversion of two classrooms into housecraft room and other sundry alterations at Mount Pleasant Secondary Girls' School, for B.C. Applications, in writing, to Architect, Civic Centre, Southampton, by Feb. 20.

**Southport, Lancs.**—Erection of a shower and changing room block at the King George V

School, Scarisbrick New Road, for B.C. Documents from Architect and Town Planning Officer, 99-105 Lord Street, Southport. Deposit £2 2s. Tenders by March 11.

**Southwell, Notts.**—Internal repainting of the Council offices, 8 Westgate, for U.D.C. Documents from M. England, architect and surveyor, 7 Westgate, Southwell. Tenders by March 7.

**Stretford, Lancs.**—External painting to Council housing estates during 1960, for B.C. Applications to the Estates Manager, Town Hall, Talbot Road, Stretford, by Feb. 27.

**Sunderland.**—Erection of Monkwearmouth community centre, for B.C. Documents from Borough Architect, Grange House, Stockton Road, Sunderland. Deposit £2 2s., cheque payable to Corporation. Tenders by Feb. 26.

**Sutherlandshire.**—Following trades for the erection of new Clyne J.S. school, Brora, for C.C. Excavator, builder, brick and concrete work. Applications to E. W. Brannen, county architect, Dornoch, by Feb. 27.

**Sutherland.**—Erection of new Clyne J.S. school, Brora, for C.C. Excavator, builder, brick and concrete work. Applications to E. W. Brannen, county architect, Dornoch, by Feb. 27.

**Swanscombe, Kent.**—External decorations to approx. 125 council houses. The work to be carried out in the period April 1 to Sept. 30, 1960, for U.D.C. Documents from the Surveyor, Council Offices, Swanscombe. Tenders by March 7.

**Swinton, Lancs.**—Erection of two bungalows with electric floor heating, for B.C. Documents from the Borough Engineer, Town Hall, Swinton. Tenders by Feb. 29.

**Thurrock, Essex.**—Re-roofing of 33 houses at Grays, for U.D.C. Documents from the Estates Manager, Whitehall Lane, Grays. Tenders by Feb. 29.

**Twickenham, Middx.**—External painting of houses, flats and temporary bungalows on seven corporation estates, for B.C. Documents from Engineer and Surveyor, Municipal Offices, Twickenham. Deposit £2 2s. Tenders by March 4.

**Tynemouth, Northumb.**—Repair and renewal of public conveniences at: (1) Minton Lane; (2) East Howdon; (3) Hawkey's Lane; (4) Ancroft Avenue, for B.C. Documents from the Borough Surveyor, 16 Northumberland Square, North Shields. Deposit £1 ls. Tenders by March 4.

**Wanstead and Woodford, Essex.**—Supply and erection of a precast concrete frame for a building of approx. 2,850 sq. ft. complete with roofing and rainwater goods, at Transfer Depot, for B.C. Documents from the Engineer and Surveyor, Municipal Offices, High Road, London, E.18. Deposit £2. Tenders by Feb. 26.

**Wandsworth.**—Building or maintenance works to municipal properties (other than small housing repairs and decorations) of an estimated value not exceeding £3,000, for B.C. Applications to J. Noel Martin, town clerk, Municipal Buildings, S.W.18, by Feb. 29.

**Wandsworth.**—Applications from contractors who may be invited from time to time to undertake building or maintenance works to properties (other than small housing repairs and decorations) of an estimated value not exceeding £3,000, for B.C. Applications, giving financial and technical references, to J. Noel Martin, town clerk, Municipal Buildings, Wandsworth, S.W.18, by Feb. 29.

**West Riding.**—Provision of new gates and rebuilding of boundary walls at Great Houghton C.E. (Controlled) School, for C.C. Documents from H. Cockell, A/Divisional Education Officer, 8 St. John's North, Wakefield. Tenders by March 4.

**West Riding.**—Remodelling of the housecraft room at Otley Prince Henry's Grammar School, for C.C., comprising of removal of the existing equipment, installation of new equipment and fixtures together with the renewal of floors and other ancillary works. Tenders by Feb. 24.

**West Sussex.**—Adaptations to provide home for the aged at 52 Shelley Road, Worthing, for C.C. Applications to the County Architect, County Hall, Chichester, by Feb. 20.

**Whitstable, Kent.**—Tenders are invited for construction in brickwork and corrugated asbestos sheeting of a new 90ft. x 87ft. Highways Depot at Station Road, for U.D.C. Documents from Engineer and Surveyor, The Castle, Whitstable. Tenders by Feb. 29.

**Wigtown.**—Conversion of Bellevilla House, Stranraer, to an old people's home, for C.C., comprising: Excavator, concretor, mason and brick works; carpenter, joiner and glazier works; slater work; flat roof finishing work; plumber work; plaster and cement work; electrical work. Applications, in writing, to the County Architect, 23 Lewis Street, Stranraer, by Feb. 23.

**Wimbledon, Surrey.**—Internal redecoration of auditorium of Public Hall, for B.C. Documents from Borough Engineer and Surveyor, Town Hall, Wimbledon, S.W.19. Tenders by March 16.

**Wisbech, Cambs.**—External painting of the following, for B.C.: (a) Thirty houses, West Parade; (b) 56 houses, Walsoken; (c) 104 houses, Southwell Road; (d) 116 houses, eight flats and six bungalows, Tinker's Drove estate. Documents from the Borough Engineer, Church Terrace, Wisbech. Tenders by March 5.

**Wortley, Yorks.**—Internal redecoration and painting of the Council offices at Grenoside, for R.D.C. Applications, in writing, to Engineer and Surveyor, Council Offices, Grenoside, Sheffield. Tenders by Feb. 25.

#### CLOTHING AND TEXTILES

**Bootle, Lancs.**—Supply of the following fire brigade uniforms, for B.C.: Patrol suits, reefer jacket and trousers (spec. T65 only); shirts and collars (firemen); shirts and collars (officers); raincoats, lined (firemen); fire tunics (spec. T.9 B. only); socks; officers' undress uniform; officers' raincoats; officers' shoes; firemen's shoes; overalls (bib and brace and jacket); blankets; helmets. In accordance with specifications issued by the Home Office (Fire Service Department) dated 1951, 1954 and 1955. Tenders in plain sealed envelopes, marked "Tender for Fire Brigade Uniform" to Harold Partington, Town Clerk, Town Clerk's Office, Bootle, 20, by March 1.

**Dunbartonshire.**—Supply of uniform clothing consisting of tunics, trousers, caps, black leather gloves, brown leather gloves, shirts, collars, and ties, for the Constabulary. Documents from the Chief Constable, Police Headquarters, Dunbarton. Tenders by March 5.

**Lanarkshire.**—Following, for Fire Brigade: Fifty Officers' white poplin shirts; 100 officers' white trubenised collars; 400 firemen's blue poplin shirts; 800 firemen's blue trubenised collars; 24 firewomen's white poplin shirts; 48 firewomen's white trubenised collars; 400 black cashmere wool ties; 15 pairs officers' black shoes; 240 pairs firemen's black shoes; 54 dozen pairs men's black half hose, preferably with nylon spliced heels and in unshrinkable finish. Tenders in accordance with specifications by the Home Office (Fire Service Department), dated 1951, to Alexander H. Nisbet, Firemaster, Fire Brigade Headquarters, Knowpton, Motherwell, by March 22. Samples should be submitted.

**Richmond, Surrey.**—Supply of uniform and protective clothing, for B.C. Documents from the Engineer and Surveyor, Hotham House, Heron Court, Richmond. Tenders by March 5.

#### DEMOLITION

**Lanarkshire.**—Demolition of the schoolhouse at Blackwood, for C.C. Written applications to D. G. Bannerman, county architect, 34 Albert Street, Motherwell, by Feb. 20.

**Lichfield, Staffs.**—Demolition contract, 1 to 19 Flowers Row, for City Council. Documents from D. Oglesby, city engineer and surveyor, Meredith House, 62 Wade Street, Lichfield. Deposit £1 ls. Tenders by Feb. 26.

**Manchester.**—Demolition of dwellings, shops and other premises near the junction of London Road and Downing Street, for City Council. Documents from the City Surveyor, Town Hall, Manchester, 2. Tenders by Feb. 29.

**Newtown and Llanllwchaearn, Monks.**—Demolition of four houses in Stone Street, Newtown, for U.D.C. Documents from the Surveyor, Town Hall, Newtown. Tenders by Feb. 27.

**Reading, Berks.**—Demolition of 6 London Street and the Island Bakery, for B.C. Documents from the Borough Surveyor (P.O. Box 17), Town Hall, Reading. Tenders by Feb. 29.

#### ELECTRICAL

**Ammanford, Carmar.**—Rewiring and renewal of electrical installations of 73 council houses, for U.D.C. Documents from Engineer and Surveyor, Council Offices, College Street, Ammanford. Deposit £2 2s. Tenders by March 2.

**Bridge-Blean, Kent.**—Completion of electrical installations at 27 Council houses, Blean, for R.D.C. Documents from the Engineer and Surveyor, Council Offices, 41 Old Dover Road, Canterbury. Tenders by March 9.

**Cardiff.**—Electrical installations in various houses and flats for the period ending Dec. 1961, for City Council. Documents from the City Surveyor, City Hall, Cardiff. Deposit £2 2s., cheque payable to Corporation. Tenders by March 7.

**Cardiff.**—Electrical installation in new gymnasium block, Cardiff High School for Boys, Newport Road, for City Council. Documents from the City Surveyor, City Hall, Cardiff. Deposit £2 2s., cheques payable to Corporation. Tenders by Feb. 29.

**Hastings, Sussex.**—Electrical installation to 162 four-storey flats and maisonettes at Halton redevelopment area, for B.C. Documents from the Borough Engineer, 37 Wellington Square, Hastings. Deposit £3 3s. Tenders by March 8.

**Lancashire.**—Following, for C.C.: Electrical installation at Farnworth Cherry Tree Primary School; electrical installation at Padgate Teachers' Training College, Hostel 8; Extensions to heating installation at Penketh and Sankey County Secondary School. Applications to the County Architect, P.O. Box 26, County Hall, Preston, by 10.30 a.m. Feb. 22.

**Manchester.**—Electrical installation to Templemead Home for Aged Persons at Woodhouse Park, for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by March 14.

**Newton Abbot, Devon.**—Maintenance of electrical wiring, fittings, etc., in existing Council houses for a period expiring in March 31, 1961, for R.D.C. Documents from the Engineer and Surveyor, Kingsteignton Road, Newton Abbot. Tenders by March 1.

#### FENCING

**Chislehurst and Sidcup, Kent.**—Reinstatement of fences to 64 houses, for U.D.C. Documents from the Housing Manager, Council Offices, Sidcup. Tenders by Feb. 26.

**Manchester.**—Supply and delivery of pedestrian guard rails for Piccadilly, comprising approx. 625 lin. yd. of straight and curved lengths, for City Council. Documents from the City Surveyor, Town Hall, Manchester, 2. Tenders by Feb. 26.

**Stroud, Glos.**—Erection of chain link fencing at London Road depot, for U.D.C. Tenders by March 1.

#### GAS AND WATER SUPPLY

**Chesterton and St. Ives.**—Sinking borehole, Bourn pumping station, for the Joint Water Board. Deposit £2 2s. Tenders by March 15.

**Deben, Suffolk.**—Supply and installation of water softening plant at the pumping station at Pettistree, for R.D.C. The plant is to be a base exchange type, capable of treating raw water having a total hardness of 430 p.p.m. and reducing this to a resultant distributed hardness of 150 p.p.m. at flow rates of up to 22,000 gallons per hour. Documents from the Engineer and Surveyor, Council Offices, Melton Hill, Woodbridge. Deposit £2 2s. Tenders by March 18.

**Dorchester.**—Laying water main, for B.C. Deposit £2 2s. Tenders by March 12.

**Downpatrick, Down.**—Installation of water supply, drainage, etc., at various housing sites, for R.D.C. Documents from Engineer's Office, Quoile Road, Downpatrick. Tenders by March 9.

**Kilkeel, Down.**—Following works, for R.D.C.: (1) Construction of 100,000-gallon reinforced concrete service reservoir at Ballymageough; (2) construction of 6,000-gallon reinforced concrete break pressure tank at Moyad, together with all ancillary site works, contract 6. The works are situated approximately four miles north-west of Kilkeel. Documents from the offices of the consulting engineers, R. Ferguson and S. McIlveen, 15 College Gardens, Belfast, or the Council Offices, Kilkeel. Deposit £5 5s. Tenders by March 2.

**Lancaster.**—Excavation of trenches and the laying of water mains within the area of supply of the Lancaster Corporation Water Undertaking, for City Council. Documents from the City Water Engineer, Town Hall, Lancaster. Deposit £1. Tenders by Feb. 26.

**Leeds.**—Construction of cast-iron main from Spens Gardens to Tongue Lane, for City Council. Deposit £3 3s. Tenders by March 4.

**Leeds.**—Construction, completion and maintenance of approximately two miles of 24in. diameter cast-iron main and other works connected therewith from Spens Gardens, West Park, to Tongue Lane, Meanwood, for City Council. The contract does not include the supply of cast-iron pipes and fittings. Documents from Kenneth L. Forster, general manager and engineer, Waterworks Department, Civic Hall, Leeds, 1. Deposit £3 3s. Tenders by March 4.

**Lisburn, Antrim.**—Supply of pipes and specials for approximately 4,200 yd. of 12in. internal diameter spun-iron class B gas main, for U.D.C. Documents from R. C. Newell, clerk, Council Offices, Lisburn. Tenders by March 7.

**Liverpool.**—Construction in the Tryweryn Valley, Merionethshire, of earth dam some 150ft. high and containing some 3,000,000 cu. yd. of materials together with tunnels, concrete structures and ancillary works, for City Council. Documents from Binnie, Deacon and Gourley, Artillery House, Artillery Row, Westminster, London, S.W.1, between March 1 and April 1. Deposit £5 payable to City Treasurer Tenders by May 16.

**Macherafelt, Londonderry.**—Provision of plumbing installations and water supplies to six houses at Lisnamuck, for R.D.C. Documents from W. and M. Given, architects, 1 Waterside, Coleraine. Tenders by Feb. 25.

**Malvern, Worcs.**—Construction of a small pumping station at Lintridge, near Bromes-

berrow (contract 5), for U.D.C. Documents from the Council's Surveyor, The Council House, Malvern. Deposit £5 5s. Tenders by March 4.

**Merionethshire.**—Construction of Tryweryn Valley dam, for Liverpool City Council. Deposit £5. Tenders by May 16.

**North Shields, Northumb.**—Supply and installation at the several sites of the following flow metering equipment, contract 16, for Coquet Water Board: (i) One recorder and transmitter for use in connection with a standing wave flume; (ii) one rectangular weir with recorder and transmitter; (iii) one rectangular weir with recorder and transmitter; (iv) eight differential pressure measuring devices for incorporation in pipelines of sizes 36in., 30in., 24in. and 18in. diameters, together with recorders and transmitters; (v) two mechanical meters; (vi) one instrument panel; (vii) ancillary equipment for the above. Documents from S. G. Barrett, engineer and manager of The Coquet Water Board, P.O. Box, 104, Pilgrim Street, Newcastle upon Tyne. Tenders by March 14.

**Pontardawe, Glam.**—Construction of a water supply scheme at Felindre, for R.D.C. The work comprises the provision and laying, mainly in fields, of approximately 1,035 lin. yd. of 3in. diameter asbestos-cement rising main, 650 lin. yd. of 3in. diameter asbestos-cement and 384 lin. yd. of 1in. diameter Alkathene distributing mains, the construction of a pumping station and service reservoir. Documents from D. S. F. Williams, engineer, Council Offices, Pontardawe. Deposit £5. Tenders by March 10.

**Ross and Whitechurch, Heres.**—Carrying out stage two of comprehensive water supply scheme (contract 8), for R.D.C. Deposit £5 5s. Tenders by March 14.

**Staffordshire.**—Shootershills reservoir, contract 55, for Potteries Water Board. Construction of a watertight reinforced concrete reservoir of 2,000,000 gallons capacity in four units of 500,000 gallons at Sandon Road, near Longton, Stoke-on-Trent. Documents from C. V. Brown, engineer and manager, Albion Street, Hanley, Stoke-on-Trent. Deposit £5 5s., cheque. Tenders by March 14.

**Uttoxeter, Staffs.**—Laying water main, Stafford Road to Balance Hill, for U.D.C. Deposit £3. Tenders by March 3.

#### HEATING AND VENTILATING

**Cardiff.**—Installation of heating and allied services at Canton Grammar School, Fairwater Road, for City Council. Documents from the City Surveyor, City Hall, Cardiff. Deposit £2 2s. (cheques payable to Corporation). Tenders by March 1.

**Cornwall.**—The heating, hot and cold water services sub-contract, to ambulance station, Barn Lane, Bodmin, for C.C. Applications to the Architect, County Hall, Truro, by Feb. 20.

**Cumberland.**—Installation of two steam boilers (each with a capacity of 1,600lb. steam/hr.) and a condense return system of pipework, at Highfield House, Wigton, for C.C. Documents from John H. Haughan, county architect, 15 Portland Square, Carlisle. Tenders by March 16.

#### HOUSING SCHEMES

**Atcham, Salop.**—Erection of blocks of single bedroom houses, four houses per block as under, for R.D.C.: Four blocks at Upper Pille, Bayson Hill; four blocks at Cross Houses; four blocks at Pontesbury. Documents from the Council's Engineer and Surveyor, 24 St. John's Hill, Shrewsbury. Tenders by March 4.

**Boston, Lines.**—Thirty houses and 20 bungalows in Arbella Road, Wellington Road, Winslow Road and Woad Farm Road, for B.C. Documents from the Borough Engineer, Municipal Buildings, Boston. Deposit £2 2s. Tenders by Feb. 27.

**Cornwall.**—Two police houses, with office and garage at Probus, for C.C. Applications to the Architect, County Hall, Truro, by Feb. 20. Deposit £3 3s. Tenders by March 19.

**Edmonton, Middx.**—Nine-storey block comprising 40 maisonettes and five dwellings for aged persons and 48 garages in three blocks within the borough, for B.C. Applications by first post, Feb. 29. Deposit £2 2s. Tenders by March 21.

**Fifeshire.**—Following, for C.C.: Four traditional houses at Auchtertool, fifth development; seven traditional houses at Strathmiglo, 11th development. Applications to the County Clerk, Cupar, Fife, by Feb. 20.

**Fifeshire.**—One headmaster's and one janitor's house at St. Paul's R.C. School, Glenrothes, for C.C. Applications to the County Clerk, Cupar, Fife, by Feb. 20.

**Haverfordwest, Pems.**—Following, for R.D.C.: (a) Llanrwm 5 housing site—erection of six bungalows, together with site works; (2) Llanfairnantygof (Trecwm) 1 housing site—erection of six bungalows, together with site works. Documents from



the Surveyor, Council Offices, 8-10 Picton Place, Haverfordwest. Tenders by March 11.

\***Keswick, Cumb.**—Erection of 20 aged persons' flatlets, for U.D.C. Apply by Feb. 27.

**Long Eaton, Derbs.**—Four pairs of three-bedroom houses at Longmoor Road, together with 80 lin. yd. of roadworks, for U.D.C. Documents from F. Turner, engineer and surveyor, Town Hall, Long Eaton. Tenders by March 6.

**Middlesbrough.**—Following, for B.C.: (a) Ten bungalows, 32 flatlets and four houses on site adjoining Albert Cook's Home, Rainsford Crescent, Thornton; (b) 20 houses, group 27, Pallister Park; (c) 10 police houses, group 20, Easterside. Documents from the Engineer, Municipal Buildings, Middlesbrough. Deposit £2 2s. each. Tenders by March 7 for (a) and (b), and March 8 for (c).

**Pembroke, Pems.**—Two pairs of bungalows type O.P. 7a, together with all necessary site works complete at Milton Village, housing site, for R.D.C. Documents from J. Owen Parry and Lewis, architect, Ammanford. Deposit £3 3s. Tenders by March 9.

**Reading, Berks.**—Five dwellings and one garage at Wychotes, St. Peters Avenue, Caversham, for B.C. Documents from the Architect, Town Hall, Reading. Deposit £2 2s., cheques payable to Corporation. Tenders by March 14.

**Swinton and Pendlebury, Lancs.**—Two bungalows, with electrical floor heating, for B.C. Documents from the Borough Engineer, Town Hall, Swinton. Tenders by Feb. 29.

**Swindon, Wilts.**—Sixty-three and 52 traditional dwellings and a number of garages in the Park neighbourhoods, for B.C. Applications to the Architect, Civic Offices, Swindon, by Feb. 24.

**Thornbury, Glos.**—Site preparation works and erection of 36 dwellings at Upper Bath Road and Chapel Street, for R.D.C. Separate documents from Rainger, Rogers and Smithson, architects, Glenmore Lodge, Wellington Square, Cheltenham, Glos., by Feb. 20. Deposit £3 3s. each.

\***Wandsworth.**—Flats in St. Alphonsus Road, for B.C. Apply by Feb. 25.

**Whiston, Lancs.**—Four aged persons bungalows of traditional construction on a site at Pepper Street, Hale, for R.D.C. Documents from Acting Engineer and Surveyor, Council Offices, Delph Lane, Whiston, Prescot. Tenders by March 9.

#### MATERIALS AND SUPPLIES

**Armagh.**—Provision of the following, from April 1, 1960, to March 31, 1961, for U.D.C.: (1) Electrical and plumbing work; (2) maintenance of town clocks; (3) stone, tarmacadam, bitumen macadam, sand, cement and cement products, earthenware pipes, miscellaneous hardware, protective clothing, rubber boots, etc. Documents from V. M. Conran, clerk, City Hall, Armagh. Tenders by March 7.

**Ayrshire.**—Following for C.C.: Liquid bitumen for (a) making bituminous macadam, (b) making bituminous carpets, (c) road dressing; tar for spraying; asphaltic bitumen road emulsion, oils and grease; road tools; paper and board; duplicating materials (paper, stencils, ink, etc.); disinfectants (for all properties of the County Council). Documents from the County Clerk, Supplies Department, County Buildings, Ayr. Tenders by Feb. 24.

\***Berwick-upon-Tweed, Northumb.**—Supply of materials, for B.C. Tenders by March 14.

\***Birmingham.**—Supply of dustbins, for City Council. Tenders by Feb. 29.

**Blackburn, Lancs.**—Supply and fixing of apparatus and equipment for gymnasium of a new secondary school, for B.C. Documents from Chief Education Officer, Library Street, Blackburn. Tenders by Feb. 27.

**Cheadle and Gatley, Ches.**—Supply of the following materials for the year April 1, 1960 to March 31, 1961, for U.D.C.: Bituminous macadam; concrete flags, kerbs and channels; earthenware pipes and other earthenware materials; cement; broken stone; cold asphalt; washed river sand; scavenging brushes; rebristling mechanical sweeper brushes; electric lamps; lanterns; swan-neck brackets; switching gear boxes; concrete lighting columns. Documents from Duncan S. Graham, engineer and surveyor, Town Hall, Abbey, Cheadle, on receipt of a stamped addressed envelope. Tenders by March 12.

**Chesterfield, Derbs.**—Following, for the year commencing April 1, 1960, for B.C.: (1) Slag, limestone and basalt tarmacadam; (2) slag, limestone and basalt bitumen macadam; (3) pre-mixed waterbound macadam; (4) special surfacings, e.g., cold asphalt; (5) sealing grit; (6) dry slag, limestone, granite, gravel and basalt chippings; (7) cold bituminous emulsions; (8) hot tar; (9) precast paving slabs; kerb, channel and edgings; (10) cement and sand; (11) salt glazed ware pipes, specials, gullies, etc.; (12) concrete pipes, specials, gullies, etc.; (13) man-hole covers, gully grates, etc. Documents from

Borough Engineer, Town Hall, Chesterfield. Tenders by Feb. 29.

**Chorley, Lancs.**—Following during the year ending March 31, 1961: (1) Bitumen macadam and cold asphalt; (2) bitumen macadam and cold asphalt laid by machine; (3) asphaltic base course; (4) asphaltic base course laid by machine; (5) hot rolled asphalt laid by machine; (6) mastic asphalt laid (footpaths); (7) premixed water-bound macadam; (8) burnt and colliery shale for road foundations; (9) loaded bitumen; (10) granite chippings; (11) concrete kerbs; (12) concrete flags; (13) laying concrete kerbs and flags and sett paved channel; (14) bitumen emulsion; (15) concrete aggregate coarse and fine; (16) building sand; (17) earthenware pipes, gullies, etc.; (18) concrete pipes and gullies; (19) gully gratings and frames; (20) manhole frames and covers; (21) electric lamps; (22) covering down materials for controlled tipping; (23) bituminous macadam for house footpaths laid; (24) surface dressing; (25) tarmacadam; (26) precast chippings. Documents from the Engineer, Town Hall, Chorley. Tenders by Feb. 23.

**Colchester, Essex.**—Supply of the following for 12 months from April 1, 1960, to March 31, 1961, for B.C.: Broken granite; kettering iron slag; tar and bitumen macadam; cement; glazed stoneware pipes; concrete pipes and gullies; precast concrete paving slabs and kerbs. Documents from J. S. Orchard, borough engineer, 1 West Stockwell Street, Colchester. Tenders by Feb. 29.

**Crompton, Lancs.**—Following for the year ending March 31, 1961, for U.D.C.: (1) Salt; (2) broken stone; (3) concrete flags, kerb and edging; (4) sand; (5) stoneware pipes; (6) dustbins; (7) tar and bituminous macadam; (8) cold emulsion; (9) sweeper/collector (Karrier)—brush refills; (10) cement; (11) cold asphalt; (12) iron castings; (13) electric lamps; (14) ground lime; (15) coke; (16) petrol. Documents from the Engineer and Surveyor, Town Hall, Shaw. Tenders by Feb. 26.

**Dartford, Kent.**—Following for year ending March 31, 1961, for R.D.C.: Schedule A comprising road-making materials, lorry hire and plant hire; schedule B comprising petrol, gas oil and fuel oil. Documents from the Engineer and Surveyor, White Oak, Swanley, Kent. Tenders by Feb. 25.

**Dunbartonshire.**—Supply of the following furniture, etc., required for the New Academy, Lenzie, for C.C.: (a) Classroom tubular combined desks, technical benches, assembly hall chairs, etc.; (b) curtains; (c) portable gymnastic apparatus. Applications in writing to the Director of Education (Supplies Department), 18 Park Circus, Glasgow, C3. Tenders by March 7.

**Dunstable, Beds.**—Following for the year ending March 31, 1961, for B.C.: (1) Tarmacadam (slag aggregate); (2) fine cold asphalt (slag aggregate); (3) concrete aggregates; (4) building sand; (5) ashes; (6) spent ballast; (7) precast concrete kerb; (8) precast concrete flags. Documents from the Engineer and Surveyor, Municipal Offices, Dunstable. Tenders by Feb. 27.

**Ipwich.**—Supply of approximately 2,500 gallons of paint during the year commencing April 1, 1960, for B.C. Documents from the Borough Engineer and Surveyor, 19 Tower Street, Ipswich. Tenders by Feb. 29.

**Larne, Antrim.**—Following, for B.C.: (1) Cement, precast concrete products, bricks, glazed ware pipes, mortar, etc.; (2) sand; (3) stones, screenings, etc.; (4) bituminous macadam; (5) general hardware, tools, etc.; (6) coal, coke, etc.; (7) spun-iron pipes and special castings; (8) valves and waterworks fittings; (9) clock winding and repairs; (10) plumbing work (repairs and maintenance); (11) electrical work (repairs and maintenance). Documents from the Borough Surveyor, Victoria Road, Larne. Tenders by Feb. 25.

**Leyton, Essex.**—Supply of following materials for the year ending March 31, 1961, for B.C.: Concrete flagging, edging and kerbing; sand, ballast, etc.; tarmacadam; clinker and ashes; window cleaning. Documents from the Borough Engineer, Town Hall, Leyton. E.10. Tenders by March 5.

\***Lincoln.**—Supply of materials, for City Council. Tenders by Feb. 26.

**Llchwyr, Glam.**—Following for the period of 12 months ending March 31, 1961, for U.D.C.: Surface dressing of roads, bituminous macadam and treated macadam, walling stone, chippings, concrete kerbing, cement, sand, bricks, mortar, casting, motor haulage tools and implements, ironmongery (including baths, sinks, copper cylinders, etc.), hardcore, ready mixed concrete and timber. Documents from J. Vaughan Williams, engineer, Council Offices, Gorseinon. Tenders by March 3.

\***Lowestoft, Suffolk.**—Supply of materials, for U.D.C. Tenders by March 14.

\***Lowestoft, Suffolk.**—Supply of materials, for B.C. Tenders by March 12.

**Magherafelt, Londonderry.**—Supplying and delivering, carriage paid to the store at Railway Road, materials and fittings as follows, for R.D.C.: (1) Sanitary plumbing materials; (2) timber, windows, doors and glass; (3) cookers, parts and fireplaces; (4) paint, etc.; (5) tools and implements; (6) concrete bricks, blocks, fencing posts, gravel and sand; (7) general builders' supplies, bins, buckets, etc.; (8) "Coinx." Documents from the Council Offices, Magherafelt. Tenders by March 21.

**Manchester.**—Supply of approximately 300,000 gallons of tar for tarspraying during the period April 1 to Oct. 31, 1960, for City Council. Documents from the City Surveyor, Town Hall, Manchester, 2. Tenders by Feb. 24.

**Manchester.**—Supply of the following materials during the 12 months commencing April 1, 1960: (a) Granite, basalt and white limestone chippings for tarspraying; (b) rolled asphalt (not process), cold bituminous macadam, not bituminous macadam, low penetration not bituminous macadam, hot asphalt, sand carpet and sealing grit. Documents from the City Surveyor, Town Hall, Manchester, 2. Tenders by Feb. 24.

**Newtownabbey, Antrim.**—Following for the year ending March 31, 1961, for U.D.C.: (1) Hardware; (2) petrol, burning oil, derv, lubricating oils, grease, etc.; (3) road metal; (4) sand, concrete blocks, bricks and cement; (5) precast concrete compressed flags and kerbs; (6) salt glazed ware pipes and concrete pipes; (7) concrete road gullies and cast-iron and steel frames and gratings; (8) fluorescent street lamps. Documents from the Surveyor, Town Hall, Whitehouse, Newtownabbey. Tenders by Feb. 29.

**Ormskirk, Lancs.**—Following, for U.D.C.: (1) Tarrad slag and limestone macadam; (2) bituminous wearing coat and sand carpet; (3) tar and tar compounds; (4) granite chippings; (5) artificial stone flags and kerbs; (6) rubble stone, sand and ashes; (7) stoneware pipes and gullies. Documents from the Engineer and Surveyor, Council Offices, Burscough Street, Ormskirk. Tenders by March 4.

**Oxford.**—Supply of petrol and diesel oil to various establishments for a period of two years commencing April 1, 1960, for City Council. Documents from Harry Flowman, town clerk, Town Hall, Oxford. Tenders by March 4.

**Queensbury and Shelf, Yorks.**—Supply of the following during the 12 months ending March 31, 1961, for U.D.C.: (1) Granite and limestone chippings; (2) tarmacadam; (3) tar surface dressing; (4) flags and kerbs (precast); (5) Portland cement; (6) sand and gravel. Documents from J. F. Hall, engineer and surveyor, Council Offices, Albert Road, Queensbury, near Bradford. Tenders by Feb. 29.

\***Rawtenstall, Lancs.**—Supply of materials, for B.C. Tenders by March 5.

\***Rotherham.**—Supply of materials, for B.C. Tenders by Feb. 29.

**Rotherham, Yorks.**—Supply of 2,500 galvanised dustbins, 34 cu. ft. capacity weighing complete with lid 28lb., and complying with B.S.S. 792 of 1947, for B.C. Documents from Borough Engineer, Municipal Offices, Rotherham. Tenders by Feb. 29.

\***Saltash, Corn.**—Supply of road materials, for B.C. Tenders by Feb. 25.

**Staffordshire.**—Supply of petrol, derv and gas oil in bulk to be delivered to County owned pumps at various points in the County during the period April 1, 1960, to March 31, 1961, for C.C. The successful tenderer will also be required to arrange for County owned vehicles to obtain petrol and derv from suppliers to be agreed in areas in the County in which there are no County owned pumps. Documents from T. H. Evans, clerk of the County Council, County Buildings, Martin Street, Stafford. Tenders by Feb. 17.

**Stanley, Dur.**—Supply of electrical materials for the year ended March 31, 1961, for U.D.C. Documents from J. J. Shipston, clerk of the Council, Council Offices, Stanley. Tenders by Feb. 27.

**Sutton-in-Ashfield, Notts.**—Following for the year ending March 31, 1961, for U.D.C.: Tarrad macadam; bituminous macadam; bituminous macadam laid by Barber-Greene spreader; tar and bituminous compounds; cement; concrete flags and kerbs; stoneware pipes; street gullies; gully grids and frames; gravel and ballast; sand; fine cold asphalt; dry limestone or slag chippings; ready mixed concrete. Documents from Ian L. McCallum, surveyor, Council Offices, Forest Lodge, Station Road, Sutton-in-Ashfield. Tenders by March 2.

**Walton-le-Dale, Lancs.**—Following for the financial year 1960-61, for U.D.C.: (1) Granite chippings; (2) limestone chippings; (3) concrete kerbs and channels; (4) concrete flags; (5) glazed ware pipes; (6) cinders and steel-works slag; (7) sand and gravel. Documents



from the Engineer and Surveyor, Council Offices, Bamber Bridge. Tenders by Feb. 24.

**Wandsworth.**—Supply of precast concrete beams for the reconstruction of the Duntshill Road Bridge, which has a clear span of 40ft. (41ft. 6in. skew span), for B.C. Documents from the Borough Engineer, Municipal Buildings, Wandsworth, S.W.18. Tenders by March 9.

**Westhoughton, Lancs.**—Supply of the following for year ending March 31, 1961, for U.D.C.: Natural stone kerbs and channels; granite chippings; concrete kerbs and channels; concrete flags; tarred and bituminous macadam; refined tar and cold emulsion; limestone chippings; concrete aggregates; cement; stoneware pipes and gullies; uncoated graded stone; cold asphalt; electric lamps; petroleum spirit and diesel oil; dustbins; tarspraying. Documents from the Surveyor or, for dustbins, the Chief Public Health Inspector, Town Hall, Westhoughton, Bolton, on receipt of a s.a.e. Tenders by March 4.

**Whiston, Lancs.**—Supply of the following items for the 12 months commencing April 1, 1960, for R.D.C.: (1) Sand and concreting aggregate; (2) Portland cement; (3) bricks; (4) precast concrete kerbs and edgings; (5) precast concrete flags; (6) concrete pipes and gullies; (7) cast-iron manhole covers and frames and gully grids and frames; (8) salt-glazed pipes and gullies; (9) burnt colliery shale; (10) ashes; (11) pitching; (12) wetmix; (13) tarmacadam; (14) bituminous macadam; (15) cold asphalt; (16) sand carpet and other similar products; (17) bitumen emulsion; (18) tools. Documents from A. J. Bebbington, acting engineer and surveyor, Council Offices, Delph Lane, Whiston. Tenders by Feb. 26.

**Wigan, Lancs.**—Following for the year ending March 31, 1961, for B.C.: (1) Grate parts; (2) ironmongery; (3) lead; (4) plumbing materials; (5) paint brushes; (6) glass. Documents from the Borough Engineer, Municipal Buildings, Library Street, Wigan. Tenders by March 1.

**Workop, Notts.**—Following during the year commencing April 1, 1960, for B.C.: (1) Common bricks; (2) bituminous emulsions; (3) Rebristling of sweeper brushes; (4) cement; (5) concrete kerb and flags; (6) sand and gravel; (7) dry, tarred and bituminous slag; (8) pitching and binding stone; (9) road tar; (10) hire of lorries; (11) salt; (12) liquid chlorine; (13) stoneware pipes and fittings; (14) coal; (15) soiled or rock salt; (16) winter grit; (17) truck-mixed concrete; (18) premixed water-bound macadam; (19) overalls; (20) red shale. Documents from the Borough Engineer, Park House, Workop. Tenders by Feb. 29.

#### PLANT AND MECHANICAL TRANSPORT

**Blackpool, Lancs.**—Supply and delivery of one loading shovel with 3 cu. yd. 25cwt. bucket, four-wheel drive, each wheel of equal size; planetary reduction gear on all wheels, diesel engine, torque conversion and power steering, for B.C. Documents from Borough Surveyor, Municipal Offices, Blackpool. Tenders by Feb. 22.

**Deane, Yorks.**—Supply of one new 2½-ton (7 cu. yd. capacity) Karrier Bantam refuse collecting vehicle, for U.D.C. Vehicle to comprise low-loading chassis, 25 by 6 heavy duty pneumatic tyres, twin rear and spare wheel; fitted with four-cylinder diesel oil engine; 12-V lighting, self starter, etc., twin electrical wipers, dual driving mirrors; all-steel body for refuse, with semi-circular sliding steel dust covers, double opening rear doors, power hydraulic end-tipping gear. Vehicle to be painted and lettered to the Chief Public Health Inspector's choice. All other details of construction of vehicle to be to the manufacturer's specification. Vehicle, complete with aluminium number plates and two licence holders, to be delivered to the Council's Depot. Tenders to C. Bishop, clerk, Council Offices, Bolton-on-Deane, by Feb. 29.

**Enniskillen, Fermanagh.**—Supply and delivery of One Wallwin series 1090/11 non-chokeable horizontal pump mounted on trailer, for R.D.C. Documents from Engineer and Surveyor, Council Offices, Corngrade, Enniskillen. Tenders by Feb. 26.

**Northern Ireland.**—Supply, delivery and erection at Coolkeeragh power station, Londonderry, of one set of hydrazine hydrate dosing equipment, for Electricity Board. set of hydrazine hydrate dosing equipment. Documents from the Board's consulting engineers, Kennedy and Donkin, 64 Royal Exchange, Manchester, 2. Deposit £5 5s., cheques payable to the Board. Tenders by March 21.

**Paignton, Devon.**—Supply and delivery of three 12 cub. yd. capacity refuse collection vehicles, for U.D.C. Documents from the Engineer and Surveyor, Municipal Offices, Oldway, Paignton. Tenders by March 7.

**St. Ives, Corn.**—Supply of one Bedford diesel engine 3-ton short chassis lorry and cab for B.C. A 1949 Bedford lorry is offered in part exchange, and this may be seen by

arrangement with the Borough Surveyor. Documents from the Surveyor, the Guildhall, St. Ives. Deposit £1 ls. Tenders by March 8.

#### PLAYING FIELDS, PARKS, ETC.

**Bedfordshire.**—Supply and laying of turf together with associated site preparation, for Highways Committee. Applications to the Surveyor, Dents Road, Bedford, by Feb. 27.

**Cardiff.**—Laying out a playing field at Heol-y-Nant, Gwaelodygarth, comprising approx. five acres grading, cultivation, seeding and drainage works, for R.D.C. Documents from S. P. Youldon, engineer and surveyor, 20 Park Place, Cardiff. Deposit £3 3s. Tenders by March 2.

**Chelmsford, Essex.**—Construction of a cinder running track and facilities for field events, for which the whole of the works must conform to the standards of the Amateur Athletic Association, for B.C. Documents from the Borough Engineer and Surveyor, Municipal Offices, Coval Lane, Chelmsford. Deposit £2 2s. Tenders by Feb. 29.

**Hull.**—Following, for City Council: (a) The development of approx. 3 acres of playing fields, including the clearing of ditches, cutting of hedges, grading, ploughing, seeding and drainage, at the Sutton Deaf School, East Carr Road, Saltshouse Road, Kingston-upon-Hull; and (b) the construction of six concrete cricket practice wickets and the supply and erection of metal and netting surrounds at the Greatfield Campus School site, Preston Road, Kingston-upon-Hull. Documents from the General Superintendents, Parks, etc., Department, 79 Ferensway, Kingston-upon-Hull. Tenders by March 11.

**Lancashire.**—The development of playing fields and fencing, etc., at the following, for C.C.: Accrington College of Further Education; Kirby St. Michaels R.C. Primary School; Litherland St. Wilfrids R.C. Secondary; Lancaster and Morecambe College of Further Education; Terrisholme County Primary School; Lancaster R.C. Secondary School. Applications to the County Architect, P.O. Box 26, County Hall, Preston, by Feb. 26.

#### ROADS, BRIDGES AND SITE WORKS

**\*Acton, Middx.**—Resurfacing of school playgrounds, for B.C. Tenders by March 24.

**Acton, Middx.**—Surface dressing of about 120,000 sq. yd. of carriageways, for B.C. Documents from the Borough Engineer, Town Hall, Acton, W.3. Tenders by Feb. 26.

**Amphill, Beds.**—Construction of approx. 880 lin. yd. of carriageway, with kerbs, channels, hardcore foundations and tarmacadam surface, earthworks, soil and surface water sewers and watermain at Council's housing estate, Flitwick, stage three, for R.D.C. Documents from the engineer and surveyor, 12 Dunstable Street, Amphill. Deposit £2 2s. Tenders by March 21.

**\*Argyllshire.**—Reconstruction of the Strachur-Loch Eck section of the Cairndow-Strachur-Toward Road (A.815), for Scottish Home Department. Deposit £15. Tenders by March 14.

**Audenshaw, Lancs.**—Provision and laying of approx. 14,000 sq. yd. of dense bituminous macadam wearing coat on Manchester Road, for U.D.C. Documents from Engineer and Surveyor, Council Offices, Ryecroft Hall, Audenshaw. Tenders by Feb. 29.

**\*Barnes, Surrey.**—Reconstruction of Castelnau, contract V, for B.C. Tenders by March 18.

**Birkenhead.**—Resurfacing of Park Drive, Lower Park, and the resurfacing of certain interior paths, for B.C. The work will involve scarifying where necessary, laying of approx. 19,000 sq. yd. tarmacadam and approx. 31,500 sq. yd. of fine cold asphalt; the adjustment of approx. 350yd. sandstone kerb and the replacement of approx. 100 gully frames and covers. Documents from the Engineer and Surveyor, Municipal Buildings, 3 Conway Street, Birkenhead. Deposit £5. Tenders by Feb. 25.

**Birmingham.**—Measure and value contract for the maintenance of joints in concrete-finished carriageways in various roads, for City Council. Documents from the office of Sir Herbert J. Manzoni, city engineer and surveyor, Civic Centre, Birmingham, 1. Deposit £2 2s. (cheque). Tenders by Feb. 24.

**\*Birmingham.**—Roads and sewers. Kinghurst Hall housing estate, for City Council. Deposit £2 2s. (cheques payable to City Engineer). Tenders by March 2.

**Breconshire.**—Surface dressing of roads (450,000 sq. yd.), for C.C. Documents from the County Surveyor, Watton Offices, Brecon. Tenders by March 7.

**Brighton, Sussex.**—Heating and planing approx. 52,000 sq. yd. of carriageway at six different sites in the borough, for B.C. The existing surfaces are either macadam, cold asphalt or tar spray and chippings. Documents from D. J. Howe, borough surveyor, 26-30 King's Road, Brighton. Tenders by Feb. 29.

**Burton Latimer, Northants.**—Following at Bakehouse Lane housing site, for U.D.C. Construction of approx. 500 sq. yd. of tarmacadam road, 220 yd. of 6in. dia. concrete tube foul sewer and 160yd. of 6in. and 9in. dia. glazed stoneware storm sewer. Documents from the offices of Pick, Everard, Keay and Gimson, engineers, 6 Millstone Lane, Leicester. Deposit £2 2s. Tenders by March 8.

**Carlisle.**—Construction of roads and sewers at Willow Holme industrial estate, for City Council. The work comprises construction of approx. 2,200 sq. yd. of reinforced concrete carriageway, kerbing, 380 lin. yd. of 9in. and 12in. dia. sewers and ancillary works. Documents from City Surveyor, 18 Fisher Street, Carlisle. Tenders by Feb. 25.

**\*Colwyn Bay, Denbighs.**—Road surfacing work, for B.C. Tenders by Feb. 29.

**Croydon, Surrey.**—Following, for B.C.: Supplying materials and surfacing carriageways by an approved mechanical spreader machine for (i) cold asphalt, approx. 67,250 super. yd.; (ii) rolled asphalt, approx. 12,000 super. yd.; (iii) granite/gravel asphalt base course, approx. 1,400 super. yd.; (iv) bitumen macadam carpet, approx. 6,000 super. yd. Some of these carriageways are required to be burned off and planed before surfacing (approx. 48,000 super. yd.). Documents from the Engineer, Town Hall, Croydon. Tenders by Feb. 29.

**Denton, Lancs.**—Surfacing of the children's playground at Victoria Park, Denton, to be completed before March 31, 1960, for U.D.C. Documents from the office of the Engineer and Surveyor, Town Hall, Denton. Tenders by March 4.

**\*Derbyshire.**—Supply of materials, for C.C. Tenders by Feb. 26.

**Down.**—Following, for C.C.: Construction of a new road of approximately 2,100yd. on the existing disused railway site at Comber between the level crossing on the Comber-Killyleagh road, and a point where the new road shall rejoin the existing Comber-Belfast road of approximately 340yd. of service road, and the widening and realignment of the existing Comber-Killyleagh road from the said level crossing for a distance of approximately 540yd. in the townlands of Town Parks, Ballyloughan and Carnause. Documents from C. A. Craig, county surveyor, English Street, Downpatrick. Deposit £5 (cheques payable to C.C.). Tenders by March 1.

**East Suffolk.**—Supply, heating and spraying of approx. 520,000 gallons of tar, tar-compound and cut-back bitumen, contract 20, for C.C. Documents from the County Surveyor, County Hall, Ipswich. Deposit £2 2s. Tenders by Feb. 29.

**Egham, Surrey.**—Execution of minor maintenance items on highways, etc., during the year ending March 31, 1961, for U.D.C. Documents from the Engineer and Surveyor, Council Offices, High Street, Egham. Deposit £2 2s. Tenders by March 5.

**Enniskillen, Fermanagh.**—Resurfacing back road and tarmacadam to terrace at Portora Royal School, for the Board of Governors. Documents from The Bursar, Portora Royal School, Enniskillen. Tenders by March 7.

**Flintshire.**—Making-up Moel View Road, Gronant (260 lin. yd. approximately), for C.C. Documents from the office of E. W. W. Richards, county surveyor, County Building, Mold. Deposit £2 2s. Tenders by Feb. 22.

**\*Gillingham, Kent.**—Surfacing in hot rolled asphalt, for B.C. Deposit £3 3s. Tenders by March 1.

**Guildford, Surrey.**—Following two contracts for footpaths and forecourts at Park Barn housing site, for B.C.: (a) Laying of approximately 1,320 lin. yd. of 5in. by 10in. kerb; 1,460 lin. yd. of 2in. by 6in. edging kerb; construction of 7,400 sq. yd. of tarmacadam footpaths; 3,800 sq. yd. of garage forecourts in hardcore and bituminous macadam, together with surface water drainage; (b) grading, preparation and seeding of 1.7 acre of house forecourts. Documents from Borough Engineer and Surveyor, Municipal Offices, High Street, Guildford. Tenders by March 2.

**Haltemprice, Yorks.**—Construction of approx. 870 sq. yd. of tarmacadam carriageway and the laying of approx. 200yd. of 9in. dia. sewers at Kingtree House, Cottingham, for U.D.C. Documents from the Engineer and Surveyor, Anlaby House, Anlaby. Deposit £1. Tenders by Feb. 29.

**Harrogate, Yorks.**—Making-up of one or more of the following private streets, for B.C.: (a) Firs Avenue, 130 lin. yd.; (b) Firs Drive, 280 lin. yd.; (c) Firs Gate, 130 lin. yd.; (d) Firs Close, 55 lin. yd. The work comprises kerbing and flagging to the footpaths and surfacing the carriageway in tarmacadam and fine cold asphalt. Documents from the office of the Borough Engineer, Municipal Offices, Harrogate. Tenders by Feb. 26.

**Hastings, Sussex.**—Following, for B.C. Construction at the Ponswood Industrial estate

extension of 3,050 sq. yd. of reinforced concrete carriageway, 810 lin. yd. of foul and surface water sewer maximum size 15in. dia., and incidental works including manholes, etc. Documents from the offices of the Borough Engineer, 37 Wellington Square, Hastings. Deposit £2 2s. Tenders by Feb. 25.

**Hazel Grove and Bramhall, Ches.**—Reconstruction and improvement of Torkington Road, Hazel Grove, a length of approx. 330yd. for U.D.C. Documents from the Engineer and Surveyor, The Council House, Hazel Grove. Deposit £2 2s. Tenders by March 1.

**Hazel Grove and Bramhall, Ches.**—Reconstruction of footpaths and surfacing of carriageways with hot rolled asphalt at Station Street, School Street, and Hatherlow Lane, for U.D.C. Documents from the Engineer and Surveyor at The Council House, Hazel Grove. Deposit £2 2s. Tenders by March 1.

**Hendon, Middx.**—Making-up of Tenterden Close, for B.C., comprising kerbing, hardcore foundation, carriageway surfacing and footway construction. Applications to Engineer and Surveyor, Town Hall, Hendon, by Feb. 20. Deposit £2 2s., cheques payable to Corporation. Tenders by March 7.

**Hertfordshire.**—Diversion of Hunters Lane, Leavesden, for C.C. Tenders by March 9.

**Inverness-shire.**—Reconstruction of a section of the Dores-Foyers-Dalcrag Road, for C.C., comprising approx. 350 lin. yd. and comprises an 18ft. carriageway and footpath. Documents from the County Surveyor, County Buildings, Inverness. Deposit £3. Tenders by Feb. 23.

**Inverness.**—Reconstruction of a section of the Kyleakin-Portree road, route A.850, Skye, for C.C. The length of the section is approximately 3.75 miles and will comprise an 18ft. carriageway including a 96ft. span arch bridge. Documents from the Surveyor, County Buildings, Inverness. Deposit £3. Tenders by Feb. 26.

**Lanarkshire.**—Following at East Kilbride New Town, for C.C.: Road 1, contract 9, road 2, contract 7; road 4, contract 2. The work comprises the laying of concrete slabbed footpaths, of an area of about 5,150 sq. yd., including necessary ancillary works, together with a brick-faced mass concrete retaining wall of height up to four feet and length about 335 lin. yd. Applications to Col. T. U. Wilson, county surveyor, 19 Auchingramont Road, Hamilton, by Feb. 23. Deposit £5 payable to C.C.

**Leatherhead, Surrey.**—Making-up Stag Leys, Ashtead, for U.D.C. Documents from Engineer and Surveyor's Department, Red House, Bull Hill, Leatherhead. Tenders by March 9.

**Leeds.**—Private street works, for City Council. Tenders by March 3.

**Llanelli, Carmar.**—Construction of approximately 1,036 sq. yd. of roadway and laying of approximately 104 lin. yd. of sewers on the Western Works site, Station Road, for B.C. Documents from the Borough Engineer, Town Hall, Llanelli. Deposit £2 2s. Tenders by Feb. 27.

**London.**—Reconstruction of a roundabout, for Ministry of Transport. Deposit £15 (cheques payable to the Ministry). Tenders by March 30.

**Londonderry.**—Siteworks at the proposed Coast Road caravan site in the townlands of Craigtown Beg and East Ballygellagh, for C.C. The siteworks consist of site clearance, provision and construction of sewers and manholes, provision and laying of water mains and distribution pipes, the construction of roads and road drainage, together with fencing and gates. Documents from W. and M. Given, architects and consulting engineers, 1 Waterside, Coleraine. Deposit £3 3s. Tenders by Feb. 26.

**Luton, Beds.**—Annual maintenance of highways and public works for the year commencing April 1, 1960, for B.C. Documents from Borough Engineer, Town Hall, Luton. Deposit £2 2s. Tenders by Feb. 29.

**Manchester.**—Supply and laying of the following, for City Council: (1) Rolled asphalt in carriageways; (2) rolled asphalt in footpaths; (3) rolled asphalt in reinstatements to carriageways; (4) rolled asphalt in reinstatements to footpaths; (5) mastic asphalt in footpaths; (6) mastic asphalt in reinstatements; (7) bitumen macadam in carriageways. Documents from the City Surveyor, Town Hall, Manchester, 2. Tenders by March 2.

**Manchester.**—New tarmac playground at St. Philips C. of E. School, Hulme, for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by Feb. 24.

**Manchester.**—Cheadle and Gatley overspill area, Councillor Lane, road and sewer contract, for City Council, comprising construction of 13,650 sq. yd. bitumen macadam carriageway, 3,290 lin. yd. of 6in. to 18in. diameter sewer, and all ancillary work. Documents from the City Surveyor (Room 208),

Town Hall, Manchester, 2. Tenders by March 7.

**Merionethshire.**—Surface dressing of trunk and county highways, for C.C. Tenders by Feb. 22.

**Midlothian.**—Reconstruction of Clerk Street, Loanhead, for C.C., comprising some 2,000 sq. yd. of leanmix concrete foundations and ancillary works. Documents from the County Surveyor, 32 Palmerston Place, Edinburgh. Deposit £2 2s. Tenders by March 7.

**Neath, Glam.**—Carriageway and footway completion works at Giants Grave housing site (section 3), for B.C., including tarmacadam surfacing of approx. 1,355 super. yd., and concrete paving of approx. 750 super. yd. of footways, together with other appurtenant works. Documents from D. Bailey, engineer, Gwyn Hall, Neath. Deposit £2 2s. Tenders by March 10.

**Northern Ireland.**—Construction of Hard-standing and Garage foundations at Cairncastle Road, Larne, for Housing Trust. Documents from the offices of the Trust, 12 Hope Street, Belfast, 12. Tenders by Feb. 22.

**Portland, Dorset.**—Laying of 2,545 sq. yd. of bituminous macadam and fine grade asphalt surfacing with prepared foundations, on the completed section of a new sea wall, for U.D.C. Documents from E. B. Cullin, engineer and surveyor, Council Offices, Portland. Tenders by Feb. 25.

**Rawmarsh, Yorks.**—Completion of street works, comprising some 3,000 super. yd. of precast concrete paving and ancillary works, for U.D.C. Documents from J. R. S. Creighton, engineer and surveyor, Council Offices, Parkgate, Yorks. Tenders by Feb. 25.

**Rawtenstall, Lancs.**—Resurfacing and reconstruction of trunk road, A.56, Burnley Road, Loveclough, for B.C., comprising laying of some 3,117 super. yd. of 24in. single-course hot rolled asphalt also superelevation works in premixed waterbound macadam, the surfacing to be of some 110 tons of bituminous macadam base course and 1,550 super. yd. of 1½in. hot rolled asphalt wearing course. Documents from the Borough Engineer and Surveyor, Town Hall, Rawtenstall, Rossendale. Tenders by Feb. 29.

**Rochford, Essex.**—Forming tarmacadam footpaths, kerbing, etc., at Mercer Avenue and Olivers Crescent and a close road, for R.D.C. The works will consist of approximately 3,200 sq. yd. of tarmacadam footpaths, 250 sq. yd. of 5in. concrete carriageway, 35 lin. yd. of 9in. surface water sewer and all appurtenant works. Documents from the Engineer and Surveyor, Council Offices, Rochford. Deposit £2 2s. Tenders by March 1.

**Royton, Lancs.**—Renewal of kerbing and flagging of footways, and the supply of all materials during the year to March 31, 1961, for U.D.C. Documents from the Surveyor, Town Hall, Royton. Tenders by Feb. 29.

**Slough, Bucks.**—Tenders are invited for carrying out the following works in 1960-61, for B.C.: Footway and carriageway construction, kerbing and incidental works, surface water drainage and sewerage works. Documents from Engineer, Town Hall, Slough. Deposit £2 2s. Tenders by March 2.

**Staffordshire.**—Making-up of following, for C.C.: (1) Adamthwaite Drive, off Uttoxeter Road, Blythe Bridge (length 437yd.); (2) Bidge-way Drive, off Grindley Lane, Blythe Bridge (length 406yd.); (3) Queen Street, off Werton Road, Audley (length 81yd.). The work includes excavation, providing two layers of 2in. broken stone to 6in. depth laid on 3in. ashes, and surfacing of 3in. bituminous macadam, p.c. concrete kerbs, footpaths of bituminous macadam and cold asphalt and incidental works, the provision of stoneware surface water drains with brick manholes and gullies. Documents from T. H. Evans, clerk to the Council, County Buildings, Stafford. Deposit £5. Tenders by March 3.

**Stenney.**—Following works, for B.C.: Supplying and laying asphalt paving, as required, for a period of 12 months from April 1, 1960. Documents from the Engineer and Surveyor, 227-233 Commercial Road, E.1. Deposit £2 2s. Tenders by Feb. 29.

**Stepney.**—Following works, for B.C.: Schedule A—the removal of surplus spoil and/or hardcore from demolished buildings and constructional works; schedule B—the removal of surplus spoil and/or hardcore from street works, sewer works, foundations and/or excavations. Documents from the Borough Engineer and Surveyor, 227-233 Commercial Road, E.1. Deposit £2 2s. Tenders by Feb. 29.

**Stevenage, Herts.**—Dual carriageway road link, etc., for the Development Corporation. Tenders by March 26.

**Stevenage, Herts.**—Civil engineering works to the value of £50,000, for Development Corporation. Apply by March 5.

**Stockport, Ches.**—Construction of garage site works on housing estates, for B.C. The work comprises excavation, drainage, levelling, surfacing, concrete base slabs, fencing, and other incidental works. Documents from

Borough Surveyor, Town Hall, Stockport. Tenders by Feb. 29.

**Sunbury-on-Thames, Middx.**—Improvement of Gaston Bridge Road, for U.D.C. Tenders by March 7.

**Sutherlandshire.**—Road and bridge works, construction, reconstruction and surfacing, Ullapool-Ledmore-Lochinver Road, routes A.835/A.837, section: Knockan-Ledmore-Lyne, approximately five miles, contract 18, for C.C. Documents from the office of the County Road Surveyor, Brora. Deposit £3 3s., cheques payable to C.C. Drawings also seen at the offices of: The Scottish Home Department (Roads Division), Bankhead Avenue, Sighthill, Edinburgh, 11; The Scottish Home Department (Roads Division), 33 Academy Street, Inverness. An engineer will meet contractors at 11 a.m. on Feb. 23 at Ledmore Junction to show them over the route. Tenders by March 15.

**Twickenham, Middx.**—Making-up of Coombe Crescent, Coombe Road and South Road, Hampton, for B.C. Deposit £2 2s. Tenders by March 7.

**Wandsworth.**—Providing and laying 4,600yd. roughcoat asphalt and 58,000yd. bitumen macadam on underlay where necessary, for B.C. Documents from the Borough Engineer, Municipal Buildings, Wandsworth, S.W.18. Deposit £2 2s. Tenders by March 9.

**Wanstead and Woodford, Essex.**—Provision and laying by machine of approx. 9,200 sq. yd. of fine cold asphalt as surfacing to existing carriageway of Lake House Road, together with appurtenant works, for B.C. Documents from the Engineer and Surveyor, Municipal Offices, High Road, E.18. Deposit £2. Tenders by Feb. 29.

**Whitstable, Kent.**—Tenders are invited for the making-up and surface water sewerage of the following, for U.D.C.: Marine Crescent—length 2,200ft. approx.; Priest Walk—length 505ft. approx.; Princess Road (part of)—length 749ft. approx.; St. Swithins Road (part of)—108ft. approx. Comprising the construction of concrete carriageways, footway paving with tarmacadam verges, and the construction of surface water sewers. Documents from the Engineer and Surveyor, The Castle, Whitstable. Tenders by Feb. 29.

**Wirral, Ches.**—Making-up of Florence Avenue, Heswall, for U.D.C. Documents from the Engineer and Surveyor, Council Offices, Heswall. Tenders by March 11.

#### SEWERAGE, SEWAGE AND REFUSE DISPOSAL

**Barnstaple, Devon.**—Construction of approx. 180 lin. yd. of 6in. sewer (with four manholes) at Cloutman's Lane, Croyde, for R.D.C. Documents from Engineer and Surveyor, Council Offices, The Red House, Castle Street, Barnstaple. Deposit £2 2s. Tenders by Feb. 29.

**Chesterton, Cambs.**—Impington sewerage scheme, for R.D.C. Deposit £2 2s. Tenders by March 7.

**Corby, Northants.**—Construction of 530yd. of 6in. diameter foul and surface water sewers, with manholes and ancillary works, for Hood Court sewerage, for U.D.C. Documents from Clerk of the Council, Council Offices, Corby. Deposit £1 1s. Tenders by March 4.

**Downpatrick, Down.**—Construction of approximately 390 lin. yd. of 6in. and 9in. diameter sewers, supplying and laying 27 lin. yd. spun-iron pipes, together with manholes, and the construction of a sludge tank and outfall, at Quoile Quay, for R.D.C. Documents from the Council Offices, Downpatrick. Deposit £3 3s. Tenders by March 9.

**Fareham, Hants.**—Western Wards main drainage, for U.D.C., comprising the construction of approx. 10,300 lin. yd. of 6in. to 24in. diameter stoneware, concrete and spun-iron pipe sewers including a tidal outfall together with the necessary manholes, etc.; the construction of a screening and disintegrator station and a small pumping station in reinforced concrete and all appurtenant works. Documents from Waterhouse and Rounthwaite, consulting engineers, 165 Westmorland Road, Newcastle upon Tyne, 4. Deposit £5 5s. Plans also seen at the offices of Engineer and Surveyor, Westbury Manor, Fareham. Tenders by March 10.

**Gipping, Suffolk.**—Claydon and Great Blakenham sewerage scheme, for R.D.C., comprising: Construction, testing and maintenance of spun-iron, concrete and glazed stoneware sewers, three pumping stations, asbestos-cement pumping mains, manholes and all other works incidental thereto. Documents from Lemon and Blizard, consulting engineers, 59 Tufton Street, Westminster, S.W.1. Deposit £5 5s., cheque payable to R.D.C. Tenders by March 14.

**Halifax, Yorks.**—Supply and erection at the sewage works of elevated steel hoppers of approx. 2,000 cu. ft. total capacity, for B.C. Documents from the Manager, Sewage Department, Salterhebble, Halifax. Tenders by March 14.



**Hawarden, Flint.**—Construction of Higher Kinnerton sewerage and sewage disposal, comprising the provision, laying and jointing of about 420 lin. yd. of 9in. diameter and 750 lin. yd. of 6in. diameter glazed stoneware pipes and 180 lin. yd. of 6in. diameter iron pipes, together with the construction of a small sewage disposal works consisting of primary and secondary tanks, filter beds and sludge drying beds. The works are situated about five miles west of Chester. Documents from Elliott and Brown, consulting engineers, Stanley House, Pelham Road, Nottingham. Deposit £5 5s. (cheques payable to R.D.C.). Tenders by March 5.

**Irvine, Ayr.**—Construction of approx. 700 lin. yd. of 30in. diameter and 70 lin. yd. of 27in. diameter concrete sewer with manholes and ancillary works for the first development of the Eglinton housing site, contract 1, for B.C. Documents from R. W. Morrison, burgh surveyor, Heathfield, 5 Kilwinning Road, Irvine. Tenders by Feb. 25.

**Kirkcaldy, Fife.**—Construction of sewers, manholes and ancillary drainage works at Dunnikier Park estate, for B.C. The work will include the construction of 1,256 lin. yd. of sewers from 9in. to 24in. diameter. Documents from the Burgh Engineer, Town House, Kirkcaldy. Tenders by Feb. 29.

**Lothian, Suffolk.**—Contract 7 Wangford sewerage, for R.D.C. Construction of 6in. cast-iron glazed stoneware and pitch fibre sewers, manholes, 4in. rising mains, two pumping station and sewage disposal works comprising sedimentation tank, filter, two humus tanks and four sludge drying beds, at Wangford. Documents from the offices of A. P. I. Cotterell and Son, engineers, 54 Victoria Street, Westminster, London, S.W.1, on or after Feb. 22. Deposit £3 3s. Plans also seen at the Council Offices, Rectory Road, Lowestoft from Feb. 22. Tenders by March 21.

**Loughborough, Leics.**—Approximately 600 lin. yd. of surface water sewers, 450 lin. yd. of foul sewers, together with approximately 3,600 super. yd. of carriageway, a reinforced concrete pumping station and other incidental works, at Derby Road industrial site, for B.C. Documents from John S. Bates, borough engineer and surveyor, Southfields, Loughborough. Deposit £2 2s. Tenders by March 11.

**Reading, Berks.**—Construction of 190 lin. yd. (approx.) foul sewer and other appurtenant works in private property in Whitley Wood Road, for B.C. Documents from Borough Surveyor, P.O. Box 17, Town Hall, Reading. Deposit £2 2s., cheques payable to Corporation. Tenders by March 1.

**Romsey and Stockbridge, Hants.**—Construction of approximately 1,500yd. of 6in. and 9in. dia. spun-concrete sewer, with manholes, ventilating shafts, lateral connections, and other works incidental thereto, in the parish of Nursling and Rownhams, stage 1, for R.D.C. Documents from Lemon and Blizard, consulting engineers, Telford House, Hulse Road, Southampton. Deposit £3 3s. (cheques payable to R.D.C.). Tenders by March 21.

**Rowley Regis, Staffs.**—Regrading of 300 lin. yd. of Mousesweet Brook, the construction of approx. 190 lin. yd. of brick/concrete outfall and culvert in Brook Lane, and 700 lin. yd. of 36in. to 54in. dia. stormwater sewer, together with manholes and ancillary works between King Street and Wrights Lane, for B.C. Documents from S. G. Wood, engineer and surveyor, Municipal Buildings, Old Hill. Deposit £2 2s. Tenders by March 2.

**Sunbury-on-Thames, Middx.**—Littleton Village sewer, for U.D.C., comprising construction of approximately 850yd. of 9in. diameter cast-iron sewer with 6in. branch connections, pumping station, and approximately 100yd. of 6in. diameter cast-iron pumping main. Documents from the Engineer and Surveyor, Council Offices, Green Street, Sunbury-on-Thames. Tenders by March 7.

**Uppingham, Rutland.**—Construction of the following works, for R.D.C.: (1) Wing sewerage and sewage disposal, the laying of approximately 1,800yd. of 6in. diameter sewers together with the construction of a sewage disposal works; (2) Morcott sewerage and sewage disposal, the laying of approximately 3,500yd. of 6in. diameter sewers together with the construction of a sewage disposal works. Contractors will be given the opportunity of tendering for the individual schemes or of tendering for the two schemes jointly. Documents from Pick, Everard, Keay and Gimson, consulting engineers, 6 Millstone Lane, Leicester. Deposit £5 5s. each scheme, cheques payable to Council. Tenders by March 19.

**Upton-upon-Severn, Worcs.**—Construction of Castlemorton sewerage and sewage disposal scheme, for R.D.C. Deposit £5 5s. Tenders by March 19.

**Uttoxeter, Staffs.**—North End outfall sewer, contract 1, for U.D.C., comprising construction of approximately 1,000 lin. yd. of 9in. and

6in. diameter spun-iron pipe sewers and 250 lin. yd. of 12in. diameter concrete pipe sewers, together with brick manholes and other incidental works. Documents from Willcox, Raikes, and Marshall, engineers, 33 Great Charles Street, Birmingham, 3. Deposit £5 5s. (cheques payable to U.D.C.). Tenders by March 4.

**Wandsworth.**—Construction of 23 manholes on existing sewers, for B.C. Documents from the Borough Engineer, Municipal Buildings, Wandsworth, S.W.18. Deposit £2 2s. Tenders by March 9.

**Wirral, Ches.**—Relief sewer, Meadow, Heswall, for U.D.C.: Supplying and laying approx. 77 lin. yd. of 15in. dia. glazed stoneware pipes, 75 lin. yd. of 12in. dia. glazed stoneware pipes, 128 lin. yd. of 9in. dia. glazed stoneware pipes, together with ancillary works. Documents from the Engineer and Surveyor, Council Offices, Heswall. Tenders by March 11.

## STREET LIGHTING

**Dartford, Kent.**—Supply and erection of 30 complete lighting units, comprising 15ft. tubular steel columns, 80-watt mercury vapour lamps and lanterns, at Oakfield Lane, for B.C. Documents from Thos. Armstrong, town clerk, Council Offices, Dartford. Deposit £2 2s. Tenders by March 1.

**Manchester.**—Erection of approximately 93 25ft. concrete columns in Parris Wood Road (north and south) and 60 20ft. concrete columns in Yew Tree Road, for City Council. Documents from the City Surveyor, Town Hall, Manchester, 2. Tenders by March 1.

**\*Mansfield, Notts.**—Erection, wiring and painting of street lighting columns, for B.C. Tenders by March 1.

**Redcar, Yorks.**—Erection of street lighting units, for B.C. The units consist of e.l.c.o. columns and lanterns. Documents from the Borough Engineer, Ridley House, Coatham Road, Redcar. Tenders by Feb. 26.

## AWARDS

### BUILDING AND DECORATING

(See also Housing Schemes)

**Ascot, Berks.**—Erection of the new Tattersalls' stand which will replace Alexandra and Grand Tier stands at Ascot Racecourse: George Wimpey and Co., Ltd., Hammersmith Grove, London, W.6. Estimated cost £1m.

**Bangor, Caerns.**—Erection of public conveniences at the following, for B.C.: Garden of Rest—F. Krubert, £3,787; Garth Point and Menai Suspension Bridge—R. J. Burr, Beach Road, Bangor, £1,760 and £1,755, respectively (recommended).

**Barking, Essex.**—Plastering for assembly hall, for B.C.: W. A. Telling, Ltd., 62 Raymouth Road, London, S.E.16, £5,658.

**Barnsley, Yorks.**—Extension of New Lodge residential home, for B.C.: E. Clarkson, Worsborough Dale, £2,308 (recommended).

**Belfast.**—Construction of foundations at Waring Street, for the Northern Ireland War Memorial building. Michael Bowley, architect, 22 Lombard Street, Belfast: McLoughlin and Harvey, Ltd., 34 York Road, Belfast.

**Birmingham.**—Following works, for City Council. A. G. Sheppard Fidler, city architect: Fifty-five lock-up garages, drying areas and landscaping work, Staplehill Farm estate, West Heath contract G18/58—J. H. Bonham and Co. (Redditch), Ltd., 35 Crabbs Cross Lane, Hunt End, Redditch, Worcs., £21,595; 115 lock-up garages, Longbridge, Northfield area, contract G18/70—Michael Woods, Ltd., First Acres, Dormston Lane, Inkberrow, Worcs., £20,467; two shops and 14 dwellings, Leach Green estate, Rubery, contract 631—Mackee and Rodway (Contractors), Ltd., 1 Chatham Road, Northfield, Birmingham, 31, £37,714.

**Bolton, Lancs.**—Terrazzo partitions for provision of cubicles at Bridgeman Street Baths, for B.C.: A. Quilgotti and Co., Ltd., Manchester (recommended). Estimated cost £1,206.

**Bridgend, Glam.**—Reinstate and bring to standard terraced houses comprising 47 and 49 Acland Road, for U.D.C. D. J. Amos, engineer and surveyor: O. G. Hartland and Sons, Ltd., 26 High Street, Ogmere Vale, Bridgend.

**Bury St. Edmunds, Suffolk.**—Alterations and extensions to the Suffolk Hotel, Buttermarket—E. W. Turner (Builders), Ltd., St. Andrew's Street North, Bury St. Edmunds. Preliminary work commenced.

**Cardiff.**—Following works, for City Council: Third instalment of Llandaff Technical College extensions—Direct Labour, £177,964; children's public convenience at Victoria Park—Davies and Davies, Ltd., 206 Penarth Road, Cardiff, £2,272; colour-painting and asphaltting of various proper-

ties—Durastic, Ltd., Harrowby Place, Cardiff (recommended).

**Chichester, Sussex.**—Re-painting of houses during 1960, for City Council: Direct Labour (recommended).

**Consett, Dur.**—Alterations and additions to premises in Newmarket Street, for the Consett Co-op. Society, Ltd. Plans by the C.W.S. Architects' Department, 90 Westmorland Road, Newcastle upon Tyne: C.W.S. Architects' Department, 90 Westmorland Road, Newcastle upon Tyne.

**Cornwall.**—Erection of an ambulance depot, comprising garages and control building, at Barn Lane, Bodmin, for C.C. J. R. Hicklin, county architect: Gordon Derry, "Heaverswood," Wadebridge, £13,961. Work to commence March 1.

**Crawcrook, Dur.**—Erection of workshops, offices and stores for the North-Eastern Electricity Board. L. J. Couves and Partners, architects, Grainger Chambers, Hood Street, Newcastle upon Tyne: Stephen Easton, Ltd., Westgate Road, Newcastle upon Tyne.

**Dewsbury, Yorks.**—Improvement of lavatories at Birstall C.E. (Aided) School, for West Riding E.C.: P. Ellis and Sons, Warwick Road, Batley Carr, Dewsbury, £6,857 (subject to M.E. approval).

**Dewsbury, Yorks.**—Following works, for B.C.: Erection of four lock-up shops on the Open Market—Wortley and Boothroyd, Ltd., Ravenshorpe, Dewsbury, £1,662 (recommended).

Alterations to the police garage in Railway Street—Samuel Armitage and Sons, Ltd., Bradford Road, Dewsbury, £3,169 (recommended subject to Home Office approval).

**Dewsbury, Yorks.**—Provision of toilet accommodation at Ravenshorpe C.E. kitchen dining room, for B.C.: William Airey and Son (Leeds), Ltd., Eldon House, Leeds, 2, £835 (recommended, subject to M.E. approval).

**Doncaster, Yorks.**—Erection of three-storey shopping precinct on frontage of St. Sepulchre Gate and Frenchgate, for the Arndale Property Trust, Ltd. Shingler and Risdon, architects, 47 Bedford Row, W.C.1; F. R. Bullen and Partners, consulting engineers, Dacre House, Dean Farrar Street, London, S.W.1; R. C. McCaffey, quantity surveyor, 32-34 Piccadilly, Bradford, 1; Leslie and Co., Ltd., 80 Woodland Road, Darlington.

**Dover, Kent.**—Erection of garages at Russell Street/St. James's Street (first stage), and a new bus shelter and public convenience at Old Folkestone Road, for B.C. R. J. Barwick and Sons, Ltd., Market Street, Dover, £3,242 and Hedgcock Bros., £2,236, respectively.

Reconstruction of buildings at the Methodist Church, London Road: G. Lewis and Sons (Dover), Ltd., 14 Widred Road, Dover, £46,000. Work has commenced.

**Droxford, Hants.**—Erection of a block of nine garages, Bere Road, Denmead, and a block of six garages, Headon View, West Meon, for R.D.C.: F. Lindley, engineer and surveyor: A. G. Wakeford, Denmead, £948, and R. G. Hughes, Catfield, Fareham, £734, respectively. Work just commenced.

**Durham.**—Following works, for C.C.: Erection of branch library at Ryton—R. C. Williamson (Durham), Ltd., Station Works, Rowlands Gill, Co. Durham, £8,605.

Construction of covered yard and milking parlour at Houghall School of Agriculture: T. W. Gilderoy and Son, Sherburn Road, Durham, £5,500.

**East Ham, Essex.**—Erection of new municipal college at High Street South, for E.C.: Wilson Lovatt and Son, Ltd., 16 Grosvenor Crescent, London, S.W.1, £715,115. Work has commenced.

**Edinburgh.**—Erection of new head office building at St. Andrew Square, for Scottish Widows' Fund and Life Assurance Society. Basil Spence and Partners, architects, 40 Moray Place, Edinburgh: Holloways Scottish Constructors, Ltd., Mem House, 91 George Street, Edinburgh, 2.

**Gateshead, Dur.**—New premises at Windermer Crescent, for Gateshead Talmudical College, 179 Bewick Road, Arthur and Kirkup, architects, 13 Swinburne Street: John Jackson and Sons, Corporation Street, Newcastle upon Tyne.

Erection of New Heathfield Grammar School, for B.C. Plans by G. F. Winters, borough engineer: General contractors—Middleton and Co., Queen Alexandra Bridge Approach, Sunderland: electrical work—Campbell and Isherwood, Ltd., Silver Street, Newcastle upon Tyne. Total cost about £200,000.

**Guisborough, Yorks.**—Erection of a new parish hall. R. Cowan, architect, 20 Finkle Street, Stockton-on-Tees: H. Peacock (Guisborough), Ltd., 131 Westgate, Guisborough. Work commenced.



**Hampstead.**—Conversion works to properties, as follows, for B.C.: 4 Kingdom Road, 65 Aberdare Gardens, and 26 Lynton Road—Smith and Mills, Ltd., 5 Elmdale Road, London, N.13, £2,399, £3,253 and £4,018, respectively; 16 Denning Road and 6 Lambolle Road—Herbert Kennard, Ltd., 9-11 Streatham High Road, London, S.W.16, £2,930 and £2,798, respectively; repairs and redecorations at 29 Howitt Road and 26 Compayne Gardens—L. F. Davis (Builders), Ltd., 83a Geffrye Street, London, E.2, £848 and £2,431, respectively; repairs and redecorations at 6 The Croft, Primrose Gardens—Pritlove Bros., Ltd., 1a Redvers Street, London, N.1, £853.

Conversion works at 21 Bracknell Gardens, for B.C.: L. F. Davis (Builders), Ltd., 83a Geffrye Street, London, E.2, £2,417 (negotiated tender).

Internal repairs and redecorations at 179 Belsize Road, for B.C.: John Scullard, Ltd., 80 Mansfield Road, London, N.W.3, £298 (recommended).

**Hendon, Middx.**—Erection of a petrol filling station at south corner of Stuart Avenue and The Hyde, for Shell-Mex and B.P. Ltd., Shell-Mex House, Strand, London. Sir Robert Tasker and Partners, architects, 3 Field Court, Gray's Inn, London, W.C.2. Alexander Cook and Partners, quantity surveyors, 5 Staple Inn, W.C.1; S. Varney and Co., Ltd., Credon House, Verney Road, London, S.E.16.

**Liverpool.**—Erection of building on the corner of Water Street and Drury Lane, for the Commercial Union Assurance Co. Daniel Watney, Eiloart, Inman and Nunn, architects, The Charterhouse, Charterhouse Square, London, E.C.1; G. D. Walford and Partners, quantity surveyors, 7-9 St. James's Street, S.W.1; R. Travers Morgan and Partners, 60 Aldermanbury, London, E.C.2, and K. W. Dale and Partners, 9a Sackville Street, London, W.1, are the consultants; H. Fairweather and Co., Ltd., Hyde Works, St. James's Lane, London, N.10. Estimated cost £200,000-£300,000.

**Manchester.**—Rebuilding store at Market Street, for Henry's Stores, Ltd. Marsden Massey and Arschavir, architects, 14 St. Peters Square; R. V. Jenkins and Co., quantity surveyors, 737 Warwick Road, Solihull, Warwickshire; Bovis, Ltd., 1 Stanhope Gate, London, W.1. Estimated cost £400,000. Demolition commenced.

**Middlesbrough, Yorks.**—New premises in Cannon Street for the Western Social Club and additions to the Ayresome Quoit and Air Rifle Club, North Road. E. Gordon Crofts, architect, 49 Grange Road, Darlington; Marsh (Builders), Ltd., Grangefield Road, Stockton-on-Tees.

**Newport, Mon.**—Adaptation and alterations at 88 and 90 Stow Hill, for B.C.: G. Prosser and Co. (1938), Ltd., West Market Street, Newport, £3,100 (recommended).

**North Riding.**—Erection of first part of modern school at Saltburn, for C.C. Grenfell Baines and Hargreaves, architects, 12-24 Guildhall Street, Preston, Lancs. A. E. Towler, quantity surveyor, 117 Fishergate, Preston; James Miller and Partners, Wakefield, Yorks., £110,149.

**North Shields.**—Erection of grocery supermarket in Saville Street on the site of the Comedy Theatre for the Arndale Property Trust, Ltd. G. M. Baxter, staff architect; Leslie and Co., 80 Woodland Road, Darlington.

**Northumberland.**—Completion of civil defence training centre at Southgate, for C.C. C. Brown, county architect; R. Hush, Union Street, Blyth, £58,568.

**Oban, Argyll.**—Alterations and extensions to pavilion I, County Sanatorium, for Board of Management for Oban and District Hospitals. Weddell and Thomson, architects, 3 Lynedoch Street, Charing Cross, Glasgow, C.3; Excavator, brick, etc., works: John MacLachlan, Ltd., Lochside Street, Oban; carpenter and joiner—D. and J. MacDougall, Drimvargie Road, Oban; slater and rough-cast—James Gray and Sons, 94-96 Academy Street, Inverness; plumber—J. M. Boyd, 18 Airds Crescent, Oban; plaster—D. and J. MacDougall, Drimvargie Road, Oban; painter—Thomas C. Watson, Ltd., 254 Kilmarnock Road, Glasgow, S.3.

**Peterborough.**—Construction of stage one, phase one, of the development of the Memorial Hospital, comprising homes for nurses, teaching department, recreation hall, boiler house and plant to serve the whole development and external works, for the East Anglian Regional Hospital Board: George Wimpey and Co., Ltd., Hammer-smith Grove, London, W.6, £292,799 (recommended, subject to Ministry approval).

**Poplar.**—Repair of properties at Bow Road, Atley Road, Driffell Road, Libra Road, Malmesbury Road, Merchant Street, Norman Grove, Tredegar Road, Vernon Road and

Wellington Way, for B.C.: S. Luxton and Son, Ltd., 5 Stewart Street, London, E.14, £7,565 (recommended).

**Port Erin, I. of M.**—Erection of public conveniences at Shore Road, for the Commissioners: J. S. Keggins, Port St. Mary, £3,923.

**Portsmouth.**—Following works, for City Council: Construction of a home for 60 aged persons and 18 aged persons' bungalows at St. Mary's Road—H. E. Collins, Ltd., Eastern Road, Farlington, Portsmouth, £78,595 (recommended); Howe and Bishop, Ltd., £78,880; J. V. Figgins (Builders), Ltd., £78,882; Portsmouth, Gosport and District Builders' Guild, Ltd., £80,628; A. G. Figgins (Contracts), Ltd., £81,047; H. Jones and Son (Portsmouth), Ltd., £83,000; E. and A. Spriggins, Ltd., £85,576.

Internal redecoration of Rock Garden pavilion—Direct Labour, £514 (recommended); Johns and Harris, £573; Thomas Stride and Son, £626; John Lay and Co., Ltd., £647; Frank J. Privett, Ltd., £727; Jno. Croad, Ltd., £732; Henry Jones and Son (Portsmouth), Ltd., £827; E. and A. Spriggins, Ltd., £889.

Minor alterations and construction of a playground at Twyford Avenue Day Nursery—R. W. Bailey, 399 Copnor Road, Portsmouth, £1,396 (recommended); Upton and Winder, Ltd., £1,449; A. E. Porter and Son, Ltd., £1,529; Henry Jones and Son (Portsmouth), Ltd., £1,900; Jno. Croad, Ltd., £1,980.

Erection of new arts and crafts and music block and dining hall and refectory conversion at the Portsmouth Training College—John Hunt, Ltd., Cleveland Road, Portsmouth, £48,925 (recommended); Jno. Croad, Ltd., £49,208; Frank J. Privett, Ltd., £49,649; Samuel Salter (Portsmouth), Ltd., £50,962; Portsmouth, Gosport and District Builders' Guild, Ltd., £53,125; Hawkins Bros. (Gosport), Ltd., £54,930; Joseph Cartwright, Ltd., £57,583; M. J. Gleeson (Contractors), Ltd., £58,725; A. G. Figgins (Contracts), Ltd., £62,203.

Provision of sanitary offices at Portsea Modern School for Boys—John Lay and Co. (Portsmouth), Ltd., 207 Arundel Street, Portsmouth, £1,073 (recommended); Henry Jones and Son (Portsmouth), Ltd., £1,174; Jno. Croad, Ltd., £1,204.

Erection of public conveniences at Twyford Avenue—Johns and Harris, Briarwood Mill Road, Fareham, £1,736 (recommended); A. E. Porter and Son, Ltd., £1,879; H. Jones and Son (Portsmouth), Ltd., £2,960.

Construction of public convenience, Lower Drayton Lane/Havant Road—J. H. Day (Farlington), Ltd., 9 Woodfield Avenue, Farlington, Portsmouth, £2,420 (recommended, negotiated tender).

**Preston, Lancs.**—Extension of the Harris College of Further Education, for the Ministry of Education Development Group. A. J. and J. D. Harris, consulting engineers, 75 Victoria Street, London, S.W.1; Holland & Hannen and Cubitts (North West), Ltd., New Chester Road, Bromborough, Ches., £650,000.

**Reading, Berks.**—Demolition of premises at Friar Street and the erection of a block of shops and offices on the site, for the Bernard Sunley Organisation. E. Norman Bailey and Partners, architects, 25 Catherine Place, London, S.W.1; Bernard Sunley and Sons, 25 Berkeley Square, London, W.1. Demolition work just commenced.

Erection of a bakery on site at rear of the Western Manufacturing Company's premises at Woodley, for Chibnalls, Ltd.: Lowton Construction Co., Ltd., Warrington, Lancs. Work to commence shortly.

**Roehford, Essex.**—Construction of six garages at Nansen Avenue, Ashingdon, for R.D.C. J. F. E. Nott, engineer and surveyor: The Roehford and District Building Co., Ltd., 381 Main Road, Ashingdon, £1,197 (accepted); F. W. Bevan and Sons, Ltd., £1,321; J. F. Hartgrove, £1,446; Higgs and Bone, Ltd., £2,700. Work commencing shortly.

**St. Helens, Lancs.**—Erection of aged persons' hostel, Derbyshire Hill neighbourhood centre, for B.C. M. Ward, borough engineer: Direct Labour.

**Salisbury, Wilts.**—Extensions to St. Thomas Secondary Modern School at Westwood estate, for Co. E.C.: James and Crockerell, Ltd., Durrington, Salisbury, £11,470.

**Sheffield.**—Rebuilding of Black Swan Hotel, Snig Hill, for Samuel Smiths Old Brewery (Tadcaster), Ltd., Hadfield. Cawkwell and Davidson, architects, 17 Broomgrove Road: John Eshelby and Son, Spring Street, Sheffield, 3. Estimated cost £135,500.

Erection of the new Oxspring Mission Church, Penistone, for Parochial Church Council of St. John the Baptist Church. A. H. and B. D. Greenhalgh, architects, 57

Market Place, Malton, Yorks.: E. Cutts, Ltd., Langdale Road, Barnsley, £6,448.

**Southport, Lancs.**—Following, for B.C.: Conversion of former concert hall at Botanic Gardens for use as a café—Direct Labour. Estimated cost £840.

Erection of a home for the aged at Sandbrook Road, Ainsdale—Sir Robert Lloyd and Co., Ltd., Port Causeway, Bromborough, Ches., £82,341; supply and driving reinforced concrete piles to form a foundation for the home—West's Piling and Construction Co., Ltd., West Drayton, Middx., £5,151 (both recommended, subject to Ministry approval).

**South Shields, Dur.**—Structural steelwork for extensions to Cleadon Park County Secondary School, for E.C.: J. W. Ellis and Co., Ltd., Great North Road, Newcastle upon Tyne, £3,954.

**Staines, Middx.**—Extensions to Manor Works, for W. E. Sykes, Ltd., Scott Brownrigg and Turner, architects, 32 London Road, Guildford: W. S. Try, Ltd., Cowley, Uxbridge. Estimated cost £9,752.

**Stretford, Lancs.**—Erection of four garages on All Saints site, for B.C.: Smith and Allcock, Ltd., 471 Chester Road, Manchester, 16, £697 (recommended, subject to Ministry approval).

**Stoke Newington.**—Repairs and adaptations to various properties, as follows, for B.C.: Seven properties—Direct Labour, £10,235; 10 Trumans Road—Prater, Ltd., 34 Green Lanes, London, N.16, £1,085; 9 Manor Road—M. and E. Builders, Ltd., 44 Cowper Road, London, N.16, £1,299; 44 Lordship Park—R. Talbot and Sons (London), Ltd., 356 Caledonian Road, N.1, £947 (all recommended).

**Sunderland, Dur.**—Rebuilding showrooms in Olive Street, for F. Clarke, Ltd.: R. Matthews and Co., 47 Nile Street, Sunderland.

Erection of shops and offices on the site of the King's Theatre, Crowtree Road. Gillinson and Barnett, architects, 8 Queens Square, Leeds: Cussins (Contractors), Ltd., The Drive, Gosforth, Newcastle upon Tyne.

Erection of factory and offices, Henry Street East, for E. Cottam: Sloan and Earnshaw, 60 Dundas Street, Sunderland.

Erection of a Methodist Church at Ettrick Grove. Matkin and Hawkins, architects, Barclays Bank Chambers, Fawcett Street, Sunderland (successors to J. Potts and Sons); D. and J. Ranken, Ltd., Stockton Road, Sunderland. Work commenced.

**Swinton and Pendlebury, Lancs.**—Erection of homes for the aged at Moorfield, for B.C.: G. and J. Seddon, Ltd., Little Hulton, £41,434 (recommended).

**Tyrone.**—Erection of a new primary school at Carnall, for Co. E.C.: W. J. Crooks, Union Street, Cookstown. Estimated cost £14,285.

**Walsall, Staffs.**—Construction of an office and warehouse at Bridgeman Street, for Benjamin Perry (Walsall), Ltd. Hickton Madeley and Salt, architects, Hatherton Road, Walsall, and Henry Vale and Sons, quantity surveyors, 47 Waterloo Road, Wolverhampton: L. Dainty, Ltd., Leighwood Grove, Aldridge, Staffs. Work commenced.

**Walthamstow, Essex.**—Following works, for B.C.: Erection of a sports pavilion at Lloyd Park—J. Morgan and Son (Stepney), Ltd., 146 Whitehorse Road, London, E.1, £11,240 (recommended).

Repair and improvement of (a) 22, 24 and 28 Fairfield Road, and (b) 90 Acacia Road—Direct Labour (recommended). Estimated cost (a) £737 per dwelling, and (b) £687, respectively.

**Wandsworth.**—Painting steel lamp columns, for B.C.: Bagshaw Contractors, Ltd., £1,608 (recommended); J. H. Miskelly, £1,917; Gallagher and O'Brien Enterprises, Ltd., £2,425; W. F. G. Gray, Ltd., £2,750.

**Watford, Herts.**—Thirty-one garages, with access roads, at Waterman Close, for B.C.: Bell and Webster, Ltd., Essex Road, Hoddesdon, Herts., £4,809 (recommended).

**West Hartlepool, Dur.**—Erection of new Brierton Hill Secondary Technical School for Girls, for E.C. A. G. Sinclair, borough architect: J. Miller and Partners, Wakefield, Yorks., £161,500.

**Westminster.**—Conversion and repair works for adaptation of basements at 21-23 St. George's Square, for City Council: Jupiter Construction Co., Ltd., 1 Storey's Gate, London, S.W.1, £3,836 (recommended).

**Workshop, Notts.**—Builders' work at Victoria Hospital, for Sheffield Regional Hospital Board: Hewitt and Maughan, 11 Wingfield Avenue, Workshop, £605 (recommended).

#### CLOTHING AND TEXTILES

**Southport, Lancs.**—Supply of uniform clothing for various departments, for B.C.: K. Marock and Co., Ltd., 15 Arcola Street, London, E.8—uniform suits and overcoats, £1,043 raincoats, £245; caps, £18 (recommended).

**DEMOLITION**

**New Romney, Kent.**—Demolition of the old fire station and clearance of the site, for B.C.: S. A. K. Masey, 28 Marsh Crescent, New Romney, £42.

**Paddington.**—Demolition of 5-22 Crompton Street, for B.C.: Henry Boyer and Sons, Ltd., Terminus Wharf, London, W.2, £984.

**Poplar.**—Demolition and clearance of four surface shelters at 24 Birchfield Street, and 1-5 St. Leonard's Street, for B.C.: Frank Valori, Ltd., 34 Christchurch Road, London, S.W.2, £39 (recommended).

**ELECTRICAL**

**Cardiff.**—Installation of a passenger lift at Llanrumney and Gabalfa Homes for Aged Persons, for City Council: Electro-Lifts, Ltd., £1,390 each (recommended).

**Darlington, Dur.**—Following, for B.C.: Improving the electric lighting at the College of Further Education—James Paterson and Co., Darlington, £472; similar work at Eastbourne Secondary Schools—Cox-Walkers, Ltd., Darlington, £762.

**Peterborough.**—Electrical services for stage one, phase one, of the development of the Memorial Hospital, for the East Anglian Regional Hospital Board: B. French, Ltd., Kidderminster, £17,138 (recommended, subject to Ministry approval).

**Seaham, Dur.**—Rewiring of 265 houses on the Deneside estate, for U.D.C.: John Calvert (Electrical), Ltd., 60 Church Street, Seaham.

**Walthamstow, Essex.**—Electrical installations at West Street and St. Stephen's Road housing estates, for B.C.: Worboys Electrical Co., Ltd., Eastern Works, Alfred's Way, Barking, £3,811 (recommended).

**FENCING**

**Portsmouth.**—Provision of galvanised steel-work fencing at East Lodge play space, for City Council: Matchless Fencing, Ltd., £417 (recommended); G. A. Day, Ltd., £419; Flexella Fencing and Engineering, Ltd., £428; Peerless Fence and Products, Ltd., £422; Boulton and Paul, Ltd., £446; Penfold Fencing, Ltd., £457; P. M. Broom (Contractors), £448; Durafencing, Ltd., £474; Gerald Gilmer, Ltd., £537.

**GAS AND WATER SUPPLY**

**Annan, Dumfries.**—Modifications to works at Landheads, for B.C. Kyle and Frew, consulting engineers, 9 Clairmont Gardens, Glasgow, C.3; Jas. Crombie and Son (Annan), Ltd., Carrutherstown, £11,685 (accepted); Border Engineering Contractors, Ltd., £13,507; Baird Bros. (Port Glasgow), Ltd., £13,658; Eden Construction Co., Ltd., £15,098; Crowley Russell and Co., Ltd., £17,491.

**Barnsley, Yorks.**—Provision of six boreholes for development of water resources, for B.C.: John Thom, Ltd., Chaddock Lane, Boothstown, Walkden, Lancs., £40,560 (recommended).

**Carlisle, Cumb.**—Special equipment for construction of the High Brownelson reservoir, for City Council: Float-operated inlet valves—Glenfield and Kennedy, Ltd., 105 Park Street, London, W.1, £488; lifting gear—Herbert Morris, Ltd., P.O. Box 7, Loughborough, Leics., £65; water level transmission—Lea Recorder Co., Ltd., Parliament Mansions, Abbey Orchard Street, S.W.1, £596 (all recommended).

**Dewsbury, Yorks.**—Supply of following, for the Mitchell Laithes sewage disposal works, for B.C.: Screening apparatus—Ames Crosta Mills and Co., Ltd., Heywood, £1,050; recording apparatus—Lea Recorder Co., Ltd., 10 Cornbrook Park Road, Manchester, 15, £500 (both recommended).

**Dewsbury, Yorks.**—Internal plumbing and gas installation at new secondary technical school, for B.C.: Grocock and Day, Ltd., 26 Mayfield Road, Leicester, £7,382 (recommended).

**Dunfermline, Fife.**—Main laying from Glassiebarns to Langfaulds, for City Council. Andrew Sinclair, burgh engineer: George Bald, 26 Queen Anne Street, Dunfermline, £6,447 (accepted); James Ritchie and Son, £7,795; Pipe Tracks, Ltd., £8,303; Wilson, Kinmond and Marr, Ltd., £9,105; Jacksons (Edinburgh), Ltd., £9,916; Whatlings, Ltd., £9,993; Alex. H. Miller, £10,208; James Keenan and Co., Ltd., £10,642; John Wight and Co. (Edin.), Ltd., £11,296; Alex. Robertson and Co., Ltd., £13,856; F. J. C. Lilley (Contractors), Ltd., £14,508; Wm. Dale and Son, Ltd., £14,764. Work to commence in March.

**Knighton, Radnors.**—Second stage of the Bledfa and Lugg Valley water supply scheme, for R.D.C.: Charles R. Coxill, Ltd., Lilleshall, Newport, Salop, £43,239.

**Maldon, Essex.**—Excavation and laying only of 300 lin. yd. 3in. a.c. mains and fittings at Tillingham, 250 lin. yd. 3in. a.c. mains and fittings at Goldhanger, and 700 lin. yd. 3in. and 4in. a.c. mains and fittings at Northend housing site, Southminster, for R.D.C. I. M. Nicholson, engineer and surveyor: G. J. Bardwell, Montrose, Cold Norton, Chelmsford, £2,299 (accepted); J. Nunn and Sons, £2,692; S. R. Jones and Co., Ltd., £2,747; J. W. Izard, Ltd., £2,994; S. D. Shaw and Sons, Ltd., £3,220; Connor Master Builders, £3,333. Work commencing March.

**HARBOURS, PIERS AND SEA DEFENCE WORKS**

**Ross and Cromarty.**—Construction of a ferry slipway on route A.87 in Kyle of Lochalsh,

including the formation of a vehicle assembly area and car park, for C.C.: Crowley Russell, Ltd., Blytheswood Square, Glasgow.

**HEATING AND VENTILATING**

**Cardiff.**—Installation of heating and alterations to hot water services at Fairwater House, for City Council: Heating (Cardiff), Ltd., £2,650 (recommended).

**Hampstead.**—Boiler conversion work at Templar House, for B.C.: Chas. P. Kinnell and Co., Ltd., 65 Southwark Street, London, S.E.1, £2,585 (recommended).

**Northwich, Ches.**—Following, for R.D.C.: (1) Oil-fired central heating system to a mess hut at Whitehall, Hartford; (2) oil-fired air heater to garages at Whitehall, Hartford. J. B. Birtwistle, engineer and surveyor: (1) Messrs. Bernard and Partners, 20 Canning Place (bottom of South Castle Street) Liverpool, 1, and (2) J. Renshaw, 13/15 Stockport Road, Denton, Manchester.

**Peterborough.**—Mechanical engineering services for stage one, phase one, of the development of the Memorial Hospital, for the East Anglian Regional Hospital Board: G. N. Haden and Sons, Ltd., Lincoln, £49,947 (recommended, subject to Ministry approval).

**St. Pancras.**—Conversion to oil-fired water heating system at Una House, for B.C.: Hope's Engineering and Heating, Ltd., 17 Berners Street, London, W.1, £1,102 (recommended).

**Shoreham-by-Sea, Sussex.**—Plumbing works in 18 houses situated at Gordon Road, comprising the installation of hot and cold water systems and other ancillary plumbing works, for U.D.C.: F. E. Chatterley, 84 Fairway Crescent, Portslade, £1,303 (accepted); Southwick Construction Co., Ltd., £1,326; M. G. Jeffrey, Ltd., £1,329; Green, Norn and Porter, £1,870; E. P. Fowler, £1,901; U. D. Bell, £2,989. Work to commence in two weeks.

**Southport, Lancs.**—Provision and installation of a calorifier and hot and cold water services at the abattoir, for B.C.: J. A. Brooks (Southport), Ltd., Southport, £1,057 (recommended).

**HOUSING SCHEMES**

**Antrim.**—Erection of three caretakers' cottages and ancillary work at Killylane Dam, near Ballyclare, for Mid-Antrim Waterworks Joint Board. Ferguson and S. McIlveen, architects, 15 College Gardens, Belfast: Mairs Bros., 12 The Square, Ballyclare.

**Barking, Essex.**—Thirty dwellings at Howard and Morley Roads, for B.C.: Hawker-Smith,

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**Birmingham.**—Following works, for City Council. A. G. Sheppard Fidler, city architect: Twelve dwellings, Short Heath Road, Erdington, contract 692, and 41 dwellings and 18 garages, The Firs estate, contract 613—Geo. Stubbings, Ltd., 201 Streetly Road, Erdington, Birmingham, 23, £24,389 and £89,484, respectively; 67 dwellings and seven garages, Shenley Lane, Northfield, contract 674—Gilligan Bros., Ltd., 765 Shirley Road, Hall Green, Birmingham, 28, £100,653; 14 bungalows, Friary Road, Handsworth Wood, contract 686—A. W. Houghton and Co., Ltd., 2a Charles Edward Road, Yardley, Birmingham, 26, £23,150; 68 dwellings, one shop and 50 garages, Eachway Farm estate, Rubery, contract 696—Mackee and Rodway (Contractors), Ltd., 1 Chatham Road, Northfield, Birmingham, 31, £149,470.

**Maydon, Dur.**—Thirty single-storey aged persons' bungalows on the Smailes Farm estate, Rowlands Gill, for U.D.C.: Direct Labour.

**Canvey Island, Essex.**—One hundred and ninety dwellings, four shops and 47 garages (second stage of development), for U.D.C.: F. P. Smith (Thurrock), Ltd., 4 Chestnut Avenue, Grays, Essex, £260,870 (recommended).

**Cardiff.**—Twenty-three dwellings, group two, at Manorbier Crescent, for City Council: Bond Bros. £46,621 (recommended, in lieu of previous tender).

**Chatham, Kent.**—Following works, for B.C.: Twenty-one old people's dwellings at Thorndike House site, Palmerston Road—Bennett and Smith (Builders), Ltd., Sheerness, £32,416; reinforced concrete framework for block A (seven-storey) and block B (five-storey flats) in the Hardstow area—Truscon, Ltd., 35 Lower Marsh, London, S.E.1, £38,285.

**Chelmsford, Essex.**—(a) Fifty-seven houses and three garages, and (b) 18 bungalows at Meadgate, for B.C.: G. Tanner and P. O. Wicks, Ltd., High Garrett Office, Braintree, £93,902; and F. Hodgson and Son, Ltd., 34 Orchard Street, Chelmsford, £93,902 and £19,376, respectively.

**Chesterfield, Derbys.**—Eight Homeville traditional flats at White House housing site, Tupton, for R.D.C.: Lowe Bros., 193 Langer Lane, Chesterfield.

**Cockermouth, Cumb.**—Erection of a block of houses, for U.D.C.: Thomas Armstrong, Ltd., South Street, Cockermouth, £7,033.

**Dewsbury, Yorks.**—Forty-six dwellings and construction of roads and sewers on the Batley Carr redevelopment area, for B.C.:

Harlow and Milner, Ltd., Warrengate, Wakefield, £85,247 (recommended, subject to Ministry approval).

**East Retford, Notts.**—Following works, for R.D.C. A. C. Bishop, architect, Yorkshire Penny Bank Chambers, Market Square, Retford: 71 houses at Lincoln Road, Tuxford—Dernie and Bell, Sons and Co., Ltd., Kilton Crescent, Worksop, £94,583 (accepted); J. H. and W. E. Ilett, Ltd., £96,863; J. Brown and Son (Retford), Ltd., £100,815; H. Dorrington and Sons, Ltd., £105,186.

Seven houses and four bungalows at North Wheatley—B. and K. Stockdale (Builders), Ltd., East Markham, near Newark, £14,643.

**Fort William, Inverness.**—Three tenement blocks with attached cottages (46 houses in all) at Claggan prefab. site development 1—trades, for B.C. John A. W. Grant, architect, 36 Melville Street, Edinburgh: Mason—John Best (Contractors), Ltd., Warriston House, Warriston Road, Edinburgh, £37,810; joiner—J. MacLellan, Bank Street, Fort William, £19,495 glazier—Highland Glazing Co., Ltd., 32a Waterloo Place, Inverness, £301; plumber—R. Campbell and Sons, Fort William, £6,994; plasterer—A. Grant and Sons, Burnett Road, Longman estate Inverness, £8,147; slater and roughcast—W. Taylor and Sons, 17 Baron Taylor's Street, Inverness, £4,579; electrician—James Scott and Co. (Electrical Engineers), Ltd., 6-12 Princes Street, Edinburgh, £3,931.

**Leatherhead, Surrey.**—Resurfacing footways and re-kerbing works, for U.D.C.: W. H. Gaze and Sons, Ltd., 139 Roehampton Vale, S.W.15, £4,576.

**Marple, Ches.**—Twenty-seven Homeville traditional housing units at Hibbert Lane and Oldham Road, for U.D.C.: Wm. Martin, Ltd., Dowson Road, Hyde.

**Middlesbrough, Yorks.**—Thirty-five houses at Pallister Park, for B.C. J. A. Kenyon, borough engineer: C. W. Athey and Sons, Ltd., Windsor Road, Middlesbrough, £55,000.

**Moir, Down.**—Following, for R.D.C. J. A. Blakely, architect, 38 Market Street, Lurgan: Sixty-six houses at Moira—Jas. McMullan and Co., Ltd., Knockmore, Lisburn, £96,766 (recommended); Calvert Bros., £97,393; Gilchrist and Cunningham, £104,860.

Ten houses at Corcreeny—Calvert Bros., Ltd., Bleary, Portadown, £15,520 (recommended); Jas. McMullan and Co., Ltd., £16,534; Millar and Co., £16,803; Gilchrist and Cunningham, £17,003.

**Newark-on-Trent, Notts.**—Forty flats and maisonnettes and 20 garages at Northgate, for B.C.: G. Wimpey and Co., Ltd., Beechdale Road, Aspley, Notts., £61,280.

**Newbury, Berks.**—Four houses and six bungalows at Wickham, for R.D.C.: Cooke Brothers, Ltd., 2 Park Way, Newbury, £15,155. Work commenced.

**Newcastle-under-Lyme, Staffs.**—Twenty-eight old people's bungalows at Park Road, Silverdale, for B.C.: Joseph Jones, Ltd., Liverpool Road, Newcastle-under-Lyme, £34,307 (recommended).

**Newport, Mon.**—One hundred and forty dwellings at Ringland, for B.C.: George Wimpey and Co., Ltd., Newport Road, Cardiff, £210,067 (recommended).

**Norton-Radstock, Som.**—Eight flats and eight bungalows at Westfield housing estate, Radstock, for U.D.C. Redwood, Miles and Wills, architects, 18 Great George Street, Bristol, 1: S. W. Foster, Ltd., Coombend, Radstock, Bath, £17,363 (accepted); Plummer and Hockey, £17,759; H. C. Bissax, £19,129.

**Oundle and Thrapston, Northants.**—Twenty-six dwellings, seven garages and a children's playground at Nassington, for R.D.C.: H. J. Firman, Ltd., Newark Road, Peterborough, £40,571.

**Penryn, Corn.**—Thirty-five Homeville traditional housing units at Permarin Road, for B.C.: Gray Conoley and Co., Ltd., Islington Wharf, Penryn.

**Portsmouth.**—Thirty-six flats and 24 garages at Furze Lane, for City Council: I. V. Figg's (Builders), Ltd., £67,227; H. E. Collins, Ltd., £67,976; Portsmouth, Gosport and District Builders' Guild, Ltd., £68,335; Howe and Bishop, Ltd., £69,130; Henry Jones and Son (Portsmouth), Ltd., £70,424; A. G. Figgins (Contracts), Ltd., £71,212; William Willett, Ltd., £71,330; John Hunt, Ltd., £71,852.

**St. Pancras.**—Following, for B.C.: 61 dwellings at Castle Road—M. J. Gleeson (Contractors), Ltd., London Road, Cheam, Surrey, £136,966; 164 dwellings at Gospel Oak redevelopment (area II), Lamble Street extension—M. J. Gleeson (Contractors), Ltd., £459,204 (both recommended).

**Shoreham-by-Sea, Sussex.**—Conversion of 22 Corbyn Crescent into two self-contained flats, for U.D.C.: F. Challen, 31 Rosslyn Avenue, Shoreham-by-Sea, £1,084 (accepted, subject to Ministry approval); R. D. V. Taylor, £1,165; D. E. F. Pilbeam, Ltd., £1,184.

**South Molton, Devon.**—Ten bungalows and site works at Kingsway, for B.C.: Priest Bros., West Street, South Molton, £13,512 (recommended).

**Swaffham, Norfolk.**—Twenty-two Homeville traditional bungalows at Coronation Grove,



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for U.D.C.: O. Staines and Son, Station Road, Swaffham.

**Swanscombe, Kent.**—Sixteen Homeville traditional housing units at Manor Farm estate, for U.D.C.: D. Jones, White Hart Road, Orpington.

**Swinton and Pendlebury, Lancs.**—Following, for B.C.: Eighty-four dwellings on the Clifton estate—Direct Labour, £121,152 (recommended).

Sixty-six houses on the Beehive estate: G. and J. Seddon, Ltd., Little Hulton, (extension of contracts recommended, subject to Ministry approval).

**Walthamstow, Essex.**—(a) Provision of asphalt paving and flooring at Prospect Hill estate, and (b) structural floors, etc., at West Street and St. Stephens Road estates, for B.C.: (a) Pilkingtons Asphalt Co., Ltd., Norway Place, Commercial Road, London, E.14, £1,072, and (b) The Kleine Co., Ltd., 9 George Street, London, W.1, £10,628 (recommended).

**Wandsworth.**—Following, for B.C.: 24 dwellings in four three-storey blocks at phase III of Portinscale estate, Putney—M. Howard (Mitcham), Ltd., Wandle House, London Road, Mitcham, Surrey, £51,125 (fixed price tenders, recommended); Joseph Cartwright, Ltd., £52,374; Walker (Tooting), Ltd., £52,450; The Anglo-Scottish Construction Co., Ltd., £53,059; Thomas and Edge, Ltd., £53,135; Robert Hart and Sons, Ltd., £53,340; Perrys (Ealing), Ltd., £53,373; T. Ringham and Co., Ltd., £54,150; T. R. Roberts (Builders), Ltd., £54,393; E. S. Moss, Ltd., £54,651; M. J. Gleeson (Contractors), Ltd., £54,895. Thirty-six flats in a two-storey and a three-storey block on phase II of Princes Way site, Southfields—Token Construction Co., Ltd., 68 Mount Street, London, W.1, £63,768 (recommended); William Willett, Ltd., £63,781; M. Howard (Mitcham), Ltd., £65,293; Robert Hart and Sons, Ltd., £66,850; Pauling and Co., Ltd., £66,858; T. R. Roberts (Builders), Ltd., £67,626; J. Garrett and Son, Ltd., £72,966; Stirton Partners, Ltd., £74,689.

**West Hartlepool, Dur.**—Ninety-two houses at Owton Manor, for B.C. A. G. Sinclair, borough architect: G. M. Pearson and Son, Front Street, Hetton, Co. Durham, £125,691.

**Westminster.**—Two hundred and fifty-eight flats in eight blocks at section IV of

Churchill Gardens, for City Council: Gee, Walker and Slater, Ltd., 100 Park Lane, London, W.1, £573,307 (fixed-price tender, recommended, subject to Ministry approval); M. J. Gleeson (Contractors), Ltd., £578,818; Rowley Bros., Ltd., £582,000; C. Miskin and Sons, Ltd., £602,568; Walter Lawrence and Son, Ltd., £605,999; J. Jarvis and Sons, Ltd., £607,390; Y. J. Lovell and Son, Ltd., £610,891; J. Gerrard and Sons, Ltd., £628,014; Wilson Lovatt and Sons, Ltd., £637,400.

#### MATERIALS AND SUPPLIES

**Doncaster, Yorks.**—Supply of 2,500 dustbins for the year commencing April 1, 1960, for B.C.: Thomas Hill (Successors), Ltd., Stourbridge, £1 9s. 1½d. each.

#### PLANT AND MECHANICAL TRUST

**Barnsley, Yorks.**—Supply of two B.M.C. 3¼-ton diesel lorries, for B.C.: Eyre Bros., (Barnsley), Ltd., Eldon Street, Barnsley, £1,081 each (recommended).

**Chatham, Kent.**—Supply of a Smith Series S paper baler, for B.C.: Municipal Supplies, Ltd., 2 Robert Street, London, W.C.2, £889 (recommended).

**Dewsbury, Yorks.**—Supply of a Broomwade rotary type compressor, for B.C.: W. G. Search, Ltd., Market Mills, Whitehall Road, Leeds, 12, £1,359 (recommended).

**Holywood, Down.**—Supply and delivery of one 5¾ concrete mixer, for U.D.C.: Hendron Bros. (Belfast), Ltd., 8-16 Eliza Street, Belfast, £190, less 2½ per cent. (accepted); Norman Macnaughton and Sons, Ltd., £190; Robert Kirk, Ltd., £193; Frederick Parker, Ltd., £182; McNeill (Engineering), Ltd., £175; Ransomes and Rapier, Ltd., £194; George Cohen, Sons and Co., Ltd., £182; The Liner Concrete Machinery Co., Ltd., £182; Millais Machinery Co., Ltd., £182.

**Swinton and Pendlebury, Lancs.**—Supply of muleadozer, for B.C.: Mobile Power (London), Ltd., Enfield, £1,230 (recommended).

**Walthamstow, Essex.**—Supply of a mechanical scraper for the storm water tanks at Low Hall Farm, for B.C.: Hartleys, Stoke-on-Trent, Ltd., £8,545 (recommended).

**Wandsworth.**—Supply of a Karrier Bantam diesel engine tower wagon, for B.C.:

Clifford and Co. (Sidcup), Ltd., Sidcup, Kent, £1,455 (recommended).

**Westminster.**—Supply of two Karrier Bantam diesel motive units with full crew cab, for City Council: Rootes, Ltd., Devonshire House, Piccadilly, London, W.1, £2,282 (recommended).

#### PLAYING FIELDS, PARKS, ETC.

**Bolton, Lancs.**—Preparation of playing fields at Johnson Fold County Primary School, for B.C.: En-Tout-Cas Co., Ltd., Syston, Leicester (recommended). Estimated cost £1,975.

**Lancashire.**—Development of playing fields, layout of grounds and erection of fencing at Waterloo County Primary School, for the Co. E.C.: Maxwell M. Hart, Ltd., 74 Corporation Street, Manchester, 4, £6,348.

**Middleton, Lancs.**—Levelling, draining and seeding of approximately three acres on the Parkfield Recreation Ground, for B.C.: Moulding Bros., 17 Randlesham Street, Prestwich, Manchester, £860.

#### RIVER AND FLOOD PREVENTION WORKS

**Monmouthshire.**—Deepening of the bed and widening of the channel of the River Ebbw, from the Navigation Colliery, Crumlin, to Glandwr Street, Aberbeeg, for Usk River Board: Direct Labour. Estimated cost £38,350.

#### RAILWAY ENGINEERING

**British Railways.**—Following contracts placed: Eastern Region:

Supply and erection of yard lighting and m.v. distribution system for Worksop marshalling yards—T. W. Sampson and Co., Ltd., Pitt Street, Sheffield, 1.

Cleaning and painting of bridges 32, 33 and 583 between Fenchurch Street and West Ham—A. Cameron, Ltd., Hamilton House, 839-841 London Road, North Cheam, Sutton, Surrey.

Supply and installation of additional equipment and modifications to existing equipment at Gas Factory Junction, Bethnal Green, Gidea Park and Stratford in connection with conversion from d.c. to a.c. electrification—The General Electric Co., Ltd., Witton, Birmingham, 6.



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Construction of new signal box at Tilbury (Riverside) Station—Haymills (Contractors), Ltd., Empire House, Hanger Green, Ealing, London, W.5.

Supply and installation of signalling and automatic warning system equipment in connection with electrification between Chelmsford and Colchester—The Siemens and General Electric Railway Signal Co., Ltd., East Lane, Wembley, Middx.

Supply and installation of traction supervisory cables between Liverpool Street, Chelmsford and Southend (Victoria). (Conversion to 50 c.p.s. a.c. traction)—Pirelli-General Cable Works, Ltd., Southampton.

Repairs to East Street and Longbridge Road overbridge 21 between Barking and Dagenham Dock—Samuel Butler and Co., Ltd., Bilton Way, Brimsdown, Enfield, Middx.

#### London Midland:

Supply and erection of structural steelwork for new platform awnings at London Road Station, Manchester—Boulton and Paul, Ltd., Riverside Works, Norwich.

Power signal box at Edge Hill, Liverpool—Sir Alfred MacAlpine and Sons, Ltd., Hooton, Little, Sutton, Wirral, Ches.

Reconstruction of bridge 76 on Timperley and Garston line to accommodate the widening of Woodland Avenue, for the Corporation of Liverpool—Leonard Fairclough, Ltd., 3 Chapel Street, Adlington, Lancs.

Reconstruction of St. Helens (Shaw Street) Station—Edward Wood and Sons, Ltd., 70 Park Street, Derby.

Reconstruction of bridge 24 on the Preston Junction to Blackburn line to accommodate road widening for the county borough of Blackburn—Wellerman Bros., Ltd., Dun Street, Sheffield, 3.

Supply, fabrication and delivery of steelwork for bridge 80 on the Trent Valley line—The Butterley Co., Ltd., Butterley, near Derby.

Supply and fixing of metal roof sheeting and decking to new platform awnings at London Road Station, Manchester—D. Anderson and Son, Ltd., Stretford, Manchester.

#### North Eastern Region:

Supply and erect shelving, racking and partitioning at Walker Gate stores depot: Rubery Owen and Co., Ltd., Wrexham.

Construction of a test embankment at Lamesley new marshalling yard: Richard Costain, Ltd., Newcastle.

Reconstruction of bridge substructure, reinforced part of superstructure and roadways and construction of a concrete water culvert at Lamesley new marshalling yard: Mitchell Construction Co., Ltd., Peterborough.

#### Scottish Region:

Signal boxes and yard buildings, Sighthill new goods depot, Glasgow—Angus M. MacDougall and Co., Ltd., Glasgow.

Construction of underpass and culvert, mains I and III, East Kilbride—Whatlings, Ltd., Glasgow.

Provision of automatic warning system, Cathcart Circle, Glasgow Central and Newton—The Westinghouse Brake and Signal Co., Ltd., London.

#### Southern Region:

Lancing Works: waterproofing of roofs—Turnerised Roofing Co., Ltd., London, S.W.11.

Ashford (Kent): modernisation of marshalling yard (earthworks and drainage)—J. W. Ellingham, Ltd., Maidstone, Kent.

Ascot: new car park—W. H. Gaze and Sons, Ltd., London, S.W.15.

Eastleigh Motive Power Depot: renewal of metal windows—Henry Hope and Sons, Ltd., Smethwick, Birmingham.

Crawley Goods Yard: construction of roads and coal pens—Geo. Wimpey and Co., Ltd., London, W.6.

Ashford (Kent) Motive Power Depot: improvements to staff accommodation—C. I. Epps and Sons, Ltd., Ashford, Kent.

London Bridge signal box: renewal of windows—The Demolition and Construction Co., Ltd., London, S.W.1.

Durnsford Road (Wimbledon) repair shop: new heating plant (thermal installation)—R. J. Symons, Ltd., Esher, Surrey.

Basingstoke: replacement of goods lift—A. J. Dunning and Sons (Weyhill), Ltd., Andover, Hants.

#### ROADS, BRIDGES AND SITE WORKS

Aycliffe, Dur.—Roads and sewers, contract 185, precinct D.3, phase I, which comprises the construction of approximately 1,500 lin. yd. of roads with drystone foundations, concrete garage aprons and associated sewers from 9in. to 15in. in diameter, for Development Corporation: Direct Labour, £30,092 (recommended).

Ayr.—Reconstruction of Victoria Bridge in welded structural steelwork, for B.C. F. A. Macdonald and Partners, consulting engineers, 11 Woodside Terrace, Glasgow, C.3: Motherwell Bridge and Engineering Co., Ltd., P.O. Box 4, Motherwell, £45,337 (recommended).

Biggleswade, Beds.—Construction of roads, sewers and water mains at London Road housing site 4, Mead End, for U.D.C. T. Wilson, engineer and surveyor: Sidney Green and Sons, Ltd., Henley, £11,323 (accepted); Winton Hayes, Ltd., £13,584; Chas. Ball, Ltd., £13,418; Carden Miller, Ltd., £12,677; H. C. Jones, Ltd., £12,077; D. and H. Contractors, Ltd., £12,296; Farmiloe and McVie, £12,996; C. H. Linton, Ltd., £13,201; Blackwood Murray, £17,450. Work about to commence.

Bolton, Lancs.—Private street works in Wardle Street, Somerdale Avenue and Romney Road, for B.C.: J. W. Bradley, Hall Lane Works, Farnworth, near Bolton (recommended). Estimated cost £11,589.

Camberwell.—Kerbing and paving works in parts of Old Kent Road and Rye Lane, for B.C.: Fitzpatrick and Son (Contractors), Ltd., 455 Old Ford Road, London, E.3, £1,956 (recommended).

Cannock, Staffs.—Construction of roads and sewers at central bus station, stage 1, for U.D.C., comprising the construction of 540 lin. yd. of 30ft. wide carriageways (part pitched construction with hot rolled asphalt surfacing, part reinforced concrete), 3,600 cu. yd. of excavation, 800 lin. yd. of sewers (6in.-21in.), together with other incidental works. E. Lomax, engineer and surveyor: J. Tierney, The Gables, 38 Church Street, Oxley, Wolverhampton, £14,662. Work just commenced.

Canvey Island, Essex.—Roads and sewers to serve 190 dwellings, four shops and 47 garages (second stage of development), for U.D.C.: Davis Contractors, Ltd., 352 Kilburn High Road, London, N.W.6, £111,961 (recommended).

Cardiff.—Making-up of Newport Street Lane and Verlands Close, for City Council: T. Gallagher and Sons, Bridgend, £732, and Walby, Ormandy and Sage (Talbot Green), £2,134, respectively (recommended).

Carlisle, Cumb.—Improvement of junction at Victoria Viaduct and James Street, for City Council: Border Engineering Contractors, Ltd., 125 Queen Street, Whitehaven, £14,884 (recommended).

Chislehurst and Sidcup, Kent.—Widening and reconstructing approximately 1-mile of A.222 Perry Street, Chislehurst, involving 14,500 sq. yd. of 8in. reinforced concrete and 4in. hot rolled asphalt surfacing, 1,100 lin. yd. of 12in. and 9in. storm water sewers, kerbing, footways, retaining walls, etc., for U.D.C. W. B. Farrow, engineer and surveyor: Mowlem (Civil Engineering), Ltd., 91 Ebury Bridge Road, London, S.W.1, £86,965. Work commencing March.

Doncaster, Yorks.—Following works, for B.C.: Surfacing of Bawtry Road—North Lonsdale Tar Macadam, Ltd., Albion Works, Sheffield, 4, £3,755; kerbing and reinstatement of footpath, Beckett Road—McCann, Fleming and Moran, Ltd., 197 Handsworth Road, Sheffield, 13, £3,290 (recommended).

Provision of flagged footpaths to serve the three-storey flats and N.F.I. type houses in Middleham Road, Goodison Boulevard and Wensley Crescent, Cantley estate, stage Va—McCann, Fleming and Moran, Ltd. Estimated cost £1,200.

Dakinfield, Ches.—Roads and sewers for 160 houses at Yew Tree Lane, site 3, for B.C.: Middleton and Co. (Blackpool), Ltd., Bank Street Sidings, Blackpool, £15,306 (recommended).

Hazel Grove and Bramhall, Ches.—Reconstruction and improvement of Mill Lane, Hazel Grove, for U.D.C. J. Fleming Andrew, engineer: Nortons (Road Construction), Ltd., Sandy Lane, Whirley, Macclesfield, £10,148.

Ilford, Essex.—(a) Improvement of Roding Lane South and (b) the reconstruction of Coventry Road, Perth Road and Wellesley Road, for B.C.: W. and C. French, Ltd., Epping New Road, Buckhurst Hill, Essex, £6,929 and £24,339, respectively (recommended).

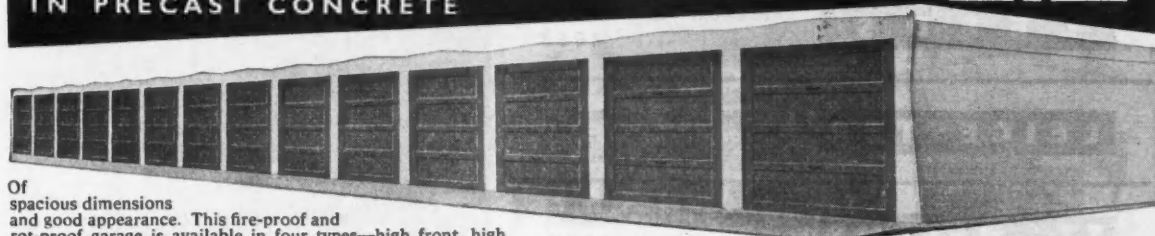
Maldon, Essex.—Construction of roads and sewers at Northend housing site, Southminster. The work comprises the construction of 5,150 super. yd. of carriageways and garage spaces (part tarmacadam and part concrete construction), 180 lin. yd. kerbing, 2,900 cu. yd. excavation, 1,100 lin. yd. sewers (6in.-12in.), together with other incidental works, for R.D.C. I. M. Nicholson, engineer and surveyor: J. Nunn and Sons, Ipswich, £14,170 (accepted); W. Crossman and Sons, Ltd., £14,434; Mannion Bros. (Harrow), Ltd., £15,310; R. W. Hill and Co., Ltd., £15,660; Roadworks (1952), Ltd., £15,792; J. H. Cottam, Ltd., £16,352; Road and Public Works, Ltd., £17,599; T. J. Evers, Ltd., £18,327; East Anglian Roadstone Transport Co., Ltd., £18,355; Edward J. Edwards (Norwich), Ltd., £20,405; Essex Plant and Contracts, Ltd., £23,939; Messrs. Crane, £26,149. Work commencing March.

Northamptonshire.—Improvement of the London-Carlisle Trunk Road, A.6, at High Street South, Rushden, near The Compasses Inn, for C.C. R. N. Sanders, county surveyor: Kottler and Heron, Ltd., Cliftonville, Northampton, £9,829. Work commencing immediately.

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**Portsmouth.**—Following works, for City Council: Making-up of Hamilton Road and Zetland Road—Direct Labour, £1,658 and £2,104, respectively (recommended); Roads Reconstruction, Ltd., £1,945 and £2,513; Warings (Contractors), Ltd., £2,000 and £2,800; Jno. Croad, Ltd., £2,200 and £2,670; Austen Shives, Ltd., £2,221 and £2,623.

Making-up Gloucester Terrace and Gloucester Place: Roads Reconstruction (1934), Ltd., Salisbury, £3,117 (recommended); Warings (Contractors), Ltd., £3,255; Austen Shives, Ltd., £3,313; Direct Labour, £3,345; Jno. Croad, Ltd., £3,546. Construction of a service road to the aged persons homes at St. Mary's Road: Warings (Contractors), Ltd., London Road, Hulsea, Portsmouth, £2,316 (recommended); Percy Bilton, Ltd., £2,492; Jno. Croad, Ltd., £3,100; Southern Counties Construction Co., Ltd., £3,163; Surface Maintenance Services, £3,315.

Construction of roads and sewers for Furze Lane development and service roads at Eastern Road/Hayling Avenue and to serve the Sevenoaks Road area: Direct Labour (recommended). Estimated cost £8,500, £8,000 and £5,000, respectively.

**Preston, Lancs.**—Reconstruction of Fletcher Road from Sellers Street to West View, for B.C. The work includes excavation, laying of approximately 1,160 sq. yd. of reinforced concrete kerbing and flagging: A. Brett (Contractors), Ltd., Station Buildings, Grimsargh, near Preston.

**Prestwich, Lancs.**—Laying approximately 6,400 sq. yd. of lin. thick fine cold asphalt with pre-coated chippings, for B.C. J. Theo. Kilner, borough engineer: N. E. Box, Ltd., Altrincham. Work commencing within one month.

**St. Pancras.**—Reconstruction of the Prince Albert Road canal bridge, for B.C.: James Crosby and Sons, Ltd., 59 Queen's Gardens, London, W.2, £59,561 (recommended).

**Salisbury, Wilts.**—Reconstruction of Wilton Road, A.36, for City Council: Surface Maintenance Services, Ltd., Durham House, 124 Old Christchurch Road, Bournemouth, Hants, £2,881.

**Sandown and Shanklin, I. of W.**—Extension of the existing Shanklin cemetery off Sandown Road, Lake, for U.D.C., consisting of the construction of footpaths, surface water drainage, provision of three belt and other ancillary works. T. Josey, surveyor: S. L. Whittington, Bramstone, Chale, I. of W., £1,879.

**Sheerness, Kent.**—Reconstruction of North Street and South Street, for U.D.C. K. Scott, engineer and surveyor: A. H. Hooker and Sons, Ltd., Leeds, near Maidstone, Kent, £10,502 (accepted); Bensted Contractors, Ltd., £9,619; Johnson Bros. (Aylesford), Ltd., £11,910; T.H. Contractors, Ltd., £11,340. Work commencing April.

**Shorne, Kent.**—Construction of forecourt to serve two lock-up garages in hardcore and tarmacadam, for Denton Builders, Ltd.: Hodsons, Ltd., 17 Wrotham Road, Gravesend.

**Southport, Lancs.**—Asphalt surfacing work at traffic roundabout at junction of Scarisbrick New Road and Meols Cop Road, for B.C.: Trinidad Lake Asphalt Co. (North Western), Ltd., India Buildings, Water Street, Liverpool, 2 (recommended). Estimated cost £636.

**Stretford, Lancs.**—Resurfacing work, for B.C.: Chatsworth Road—J. A. Uttley, Ltd., Albany Road, Chorlton-cum-Hardy, Manchester, £2,240; Kings Road—Apex Asphaltes, Ltd., Owen Street, Stockport, £1,052 (both recommended).

**Walthamstow, Essex.**—Improvement of Shernhall Street, from Forest Cop Road to Prospect Hill, for B.C.: Percy Bilton, Ltd., 113 Park Street, London, W.1, £15,699 (recommended).

**Watford, Herts.**—Bituminous surfacing of Marlborough Road to Upton Road, for B.C.: Constable, Hart and Co., Ltd., Lion House, Red Lion Street, Richmond, Surrey, £1,195 (recommended).

**Witney, Oxon.**—Church Lane/Stanton Harcourt Road reconstruction, for U.D.C. C. A. Warner, engineer and surveyor: Clark Bros., Stratton Road, Swindon, Wilts., £6,783.

**Workington, Cumb.**—Reconstruction of Gladstone Street, for B.C.: Eden Construction Co., Ltd., English Damside, Carlisle, £828 (recommended).

#### SEWERAGE, SEWAGE AND REFUSE DISPOSAL

**Alnwick, Northumb.**—Construction of sewerage works at Boulmer, for R.D.C. D. Balfour and Son, consulting engineers, 131 Victoria Street, Westminster, S.W.1: Alston Limestone Co., Ltd., Alco House, Lynnwood Terrace, Westgate Road, Newcastle upon Tyne, £17,703 (accepted, subject to Ministry approval); R. Carse and Son, Ltd., £18,201; McLaren and Co. (Belford), Ltd., £18,101; Walter G. Birch (Harrogate), Ltd., £22,897;

W. S. Sample, £19,077; Chas. G. Inkster, £19,567; Tarslag, Ltd., £19,976; C. S. Bunch and Sons, £23,517; R. Slawther, £18,000; Gustavus Bailey, Ltd., £24,807.

**Aylesbury, Bucks.**—Construction of the Grendon Underwood sewerage and sewage disposal scheme, for R.D.C.: Turriff Construction Corporation, Ltd., Budbrooke Road, Warwick, £49,697.

**Barnsley, Yorks.**—Provision of humus tank desludging equipment for the primary humus tanks, for the new A.D.F. pumping station, for B.C.: William E. Farrer, Ltd., 82 Victoria Street, London, S.W.1, £2,187 (recommended).

**Brixworth, Northants.**—Construction of extensions to the sewage disposal works at Moulton, near Northampton, consisting of screening, storm overflow and recorder chambers, settling tank, 52ft. 6in. diameter percolating filters, humus tank, storm water tank, pumping station, sludge storage lagoon, and attendant pipework, drains, paths and roads, etc., for R.D.C. Pick, Everard, Keay and Gimson, consulting engineers, 6 Millstone Lane, Leicester: Tandy and Richmond, Ltd., Pitsford Brickworks, near Pitsford, Northampton (subject to Ministry approval).

**Coleraine, Londonderry.**—Construction of Jubilee Terrace urban drainage scheme, for B.C. K. H. Hill, borough surveyor: John Rainey (Construction), Ltd., Coleraine Road, Portrush, £15,802 (accepted); J. Kennedy and Co., £17,770; R. J. Pattison Nutt and Sons, £16,240. Work to commence in March.

**Cannock, Staffs.**—Supply and installation of four bogie-mounted sewage distributors operated by an existing cable drive, each distributor to span approximately 40ft. and have a peak discharge capacity of 750,000 gallons per day, for U.D.C. E. Lomax, engineer and surveyor: Hartleys (Stoke-on-Trent), Ltd., Stoke-on-Trent, £5,223 (subject to Ministry approval).

**Dorking, Surrey.**—Following, for U.D.C.: (a) Surface water sewer, A.25, Westcott—approximately 180 lin. yd. of 6in. and 170 lin. yd. of 9in. diameter sewer; (b) road improvement works, CX54, Middle Street, Brockham—(a) Austen Shives, Ltd., Orestan Lane, Effingham, Surrey, and (b) Conway and Hart, 149 Croydon Road, Penge, S. E.20.

**Formby, Lancs.**—Construction of the new sewage disposal works at Formby, comprising the following: Inlet works and pumping

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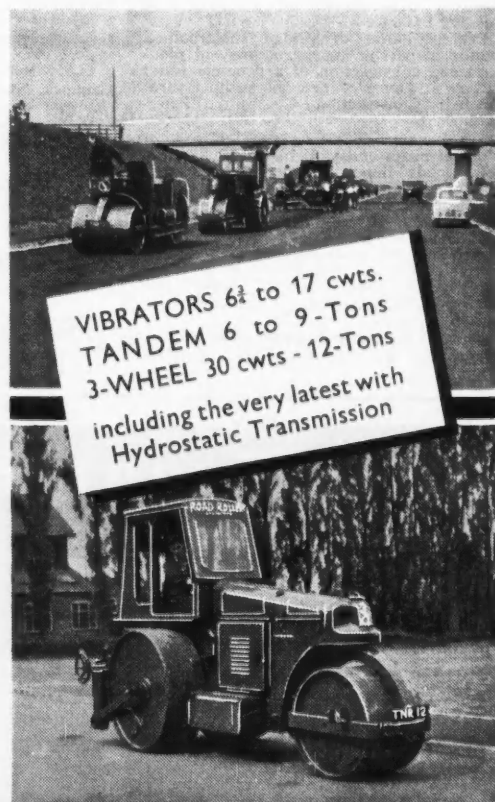
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station; sedimentation tanks; storm water tanks; filter beds; humus tanks; sludge drying beds, for U.D.C. Husband and Co., consulting engineers, 388 Glossop Road, Sheffield, 10; William Becker and Sons, Ltd., Station Works, Byron Road, Great Crosby, Liverpool, 3. Work to commence in the near future.

**Hampstead.**—Construction of new manholes, comprising access shafts to avoid brick sewers, for B.C.: D. R. Paterson, Ltd., 33 Granville Road, London, N.W.2 (recommended). Estimated cost £8,000.

**Hertfordshire.**—Construction of the following works at Maple Lodge Digestion Plant, contract W.11, for the West Hertfordshire Main Drainage Authority: Two primary sludge digestion tanks, capacity 760,000 gallons each; six secondary sludge digestion tanks, capacity 485,000 gallons each; two sludge consolidation tanks, capacity 250,000 gallons each; one sludge pumping station and all necessary pipelines, manholes, ducts, culverts, roadways and other appurtenant works. John Taylor and Sons, consulting engineers, Artillery House, Artillery Row, Victoria Street, Westminster, London, S.W.1: Kottler and Heron, Ltd., Hollybank, Cliftonville, Northampton, £234,351.

**Huddersfield, Yorks.**—Construction of rectangular filter beds (approximately 83,000 cu. yd. capacity), settlement tanks (two 130ft. diameter), sluice tank (one 60ft. diameter), pumping stations, pipelines and ancillary works at Heaton Lodge sewage treatment works, near Huddersfield, for B.C. A. L. Percy, borough engineer and surveyor: R. T. Haley and Co., Ltd., Hunsworth, Cleckheaton, Yorks.

**North Westmorland.**—Laying of about 1,810 lin. yd. of 6in. diameter reinforced concrete pipe sewers, and the construction of 34 manholes at Hartley, near Kirkby Stephen, for R.D.C. Fairbank and Son, consulting engineers, 62a Bootham, York: P. A. Baines and Son, Culgaith, Penrith, Cumberland, £7,526. Work commencing April.

**Torpoint, Corn.**—Laying of 49yd. of 6in. dia., 78yd. of 7in. dia. and 101yd. of 9in. dia. glazed stoneware sewers and the construction of four manholes, for U.D.C. G. H. Ivory and Partners, consulting engineers, 24 Athenaeum Street, Plymouth: Northcotts of Exeter, Ltd., Venny Bridge, Whipton, Exeter, £2,239.

**Towcester, Northants.**—Main drainage of Towcester and Paulerspury, T32/3, contract 1, for R.D.C., comprising the construction of approximately nine miles of 6in. to 18in. diameter sewers and rising mains, two sewage pumping stations, a sewage disposal works, and other ancillary works. Howard Humphreys and Sons, consulting engineers, Victoria Station House, Victoria Street,

London, S.W.1: Chapman and Dowd, Ltd., Butlin Street, Birmingham, 7, £179,083. Work commencing March.

**Vaynor and Penderyn, Brecons.**—Alterations and extensions to sewage disposal works at Cefn Coed, for R.D.C.: Thomas and Morgan and Partners, 23 Gelliwastad Road, Pontypridd: Davies, Middleton and Davies, Ltd., Phoenix Works, Caerphilly Road, Cardiff, £16,000.

#### STREET LIGHTING

**Barnsley, Yorks.**—Supply of following for improvements to public lighting in Park Road, Keresforth Hill Road and Broadway, for B.C.: Lanterns—A.E.I. Lamp and Lighting Co., Ltd., Trafford Park Road, Manchester, 17, £918; concrete columns—Stanton Ironworks Co., Ltd., Nottingham, £2,293 (both recommended).

**Cannock, Staffs.**—Group A lighting scheme for route B.4154 from Cross Keys Hotel to junction with B.5012, Heath Hayes, and group B lighting scheme for various roads throughout the urban district, for U.D.C. E. Lomax, engineer and surveyor: Engineering and Lighting Equipment Co., Ltd., Sphere Works, Campfield Road, St. Albans, £2,767.

**Dalton-in-Furness, Lancs.**—Lighting of main road from the Barrow boundary to the top of Crooklands, for U.D.C.: Engineering, Lighting and Equipment Co., Sphere Works, St. Albans, Herts. Estimated cost £6,000.

#### GOVERNMENT CONTRACTS

**Admiralty.**—Contracts over £1,000 in value placed by the Civil Engineer-in-Chief's Department:

Hampshire: repainting of beach gates—Metallisation, Ltd., Dudley; roofing—Weatherall Roofing Co., Ltd., Gravesend: construction of water tank and steel tower—Braithwaite and Co., Structural, Ltd., Great Bookham, Surrey.

Berkshire: internal painting—J. and B. Abbott (Contractors), Ltd., Harrow. Dunbartonshire: construction of mess hall and latrines—Dougall and Co., Ltd., Dunbarton.

**Air Ministry.**—Contracts to the value of £500 or over for the week ended Feb. 5:

Building work: Mossy Hill, Shetlands—William Tawse, Ltd., Angusfield, Aberdeen. Road surface work: Cosford, Staffs.—Bristowes Tavia Contracting, Ltd., Dysart Road, Grantham, Lincs.

Artificers' work: Bawtry (Doncaster, Yorks.), etc.—G. Chessman, Ltd., Scotter Road, Scunthorpe, Lincs.; Thorney Island

(Emsworth, Hants), etc.—Marsh (Emsworth), Ltd., 31a North Street, Emsworth, Hants; Greatworth (Banbury, Oxon)—J. H. Woodward (Contractors), Ltd., Eastfield Road, Leamington Spa, Warwickshire.

Electrical installations and internal wiring work: Eastleigh, East Africa—Berkeley Electrical Engineering Co. of Africa, Ltd., P.O. Box 9069, Nairobi, Kenya, British East Africa.

**Post Office.**—Contracts for duct laying, etc., works to the value of £500 and over placed for the week ended Feb. 6, 1960:

Ashe Bros., 7 Marvell Avenue, Hayes, Middx.; Alec Astbury, Pen-y-Ford, Chester; P. A. Baines and Sons (Northern), Ltd., Culgaith, Cumb.; P. J. Burke, Ltd., Park Street, Wombwell, Barnsley, Yorks.; C.D.L. Construction Co., Ltd., Church Road, Egham, Surrey; Christie and Co. (Contractors), Ltd., Raemoir Road, Banchory, Kincardines; James Cooper (Construction), Ltd., 28 Kensington Church Street, London, W.8; E. and B. Contractors, 24 Alyn Drive, Pen-y-Ford, Chester; The Eden Construction Co., Ltd., English Damside, Carlisle, Cumb.; W. Emerson, Ashby, Spilsby, Lincs.; George H. Graham (Contractors), Ltd., District Bank Chambers, Market Street, Huddersfield, Yorks.; P. Lowery and Sons, Ltd., Sussex Road, Southall, Middx.; J. Murphy and Sons, Ltd., 43 Charteris Road, Finsbury Park, London, N.4; The North Midland Construction Co., Ltd., Portland Works, Daybrook, Nottingham; The Norwest Construction Co., Ltd., Litherland, Liverpool, 21; J. O'Malley and Co., Ltd., 17 Vaughan Avenue, Doncaster, Yorks.; Robert Paterson and Sons, Ltd., Milton Street, Airdrie, Lanarks.; T. E. Taylor, 17 Edward Street, St. Philips, Bristol, 2; Alexander Thomson and Co. (London), Ltd., 45a Kensington High Street, London, W.8; P. J. Walls and Bros., Ltd., Saintfield Road, Carryduff, Belfast.

**War Department.**—Contracts placed for the week ended Feb. 5:

Hampshire (Deepcut): redecoration—Fields Ltd., Reading. Kent (Maidstone): painting and decorating—Alfred Bagnall and Sons, Ltd., Teddington; (Shorncliffe): building—William Dunk, Ltd., Folkestone (Gillingham): painting and decorating—Arnold Sharrocks, Ltd., London, S.W.11. Midlothian (Edinburgh): miscellaneous—Robert Neish, Ltd., Edinburgh. Shropshire (Oswestry): roadwork—Henry Williams and Son (Roads), Ltd., Wrexham. Suffolk (Ipswich): building—Cubitt and Gotts, Ltd., Ipswich. Wiltshire (Chisledon): building—Wain Bros. (Contractors), Ltd., Swindon.

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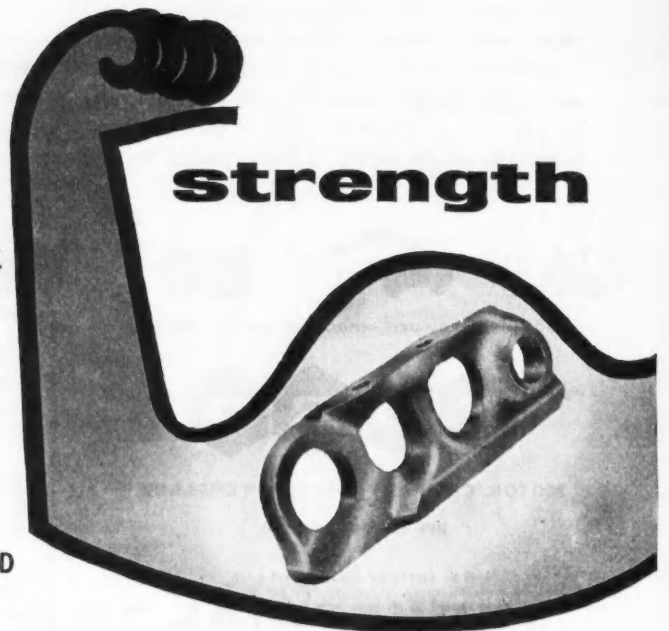
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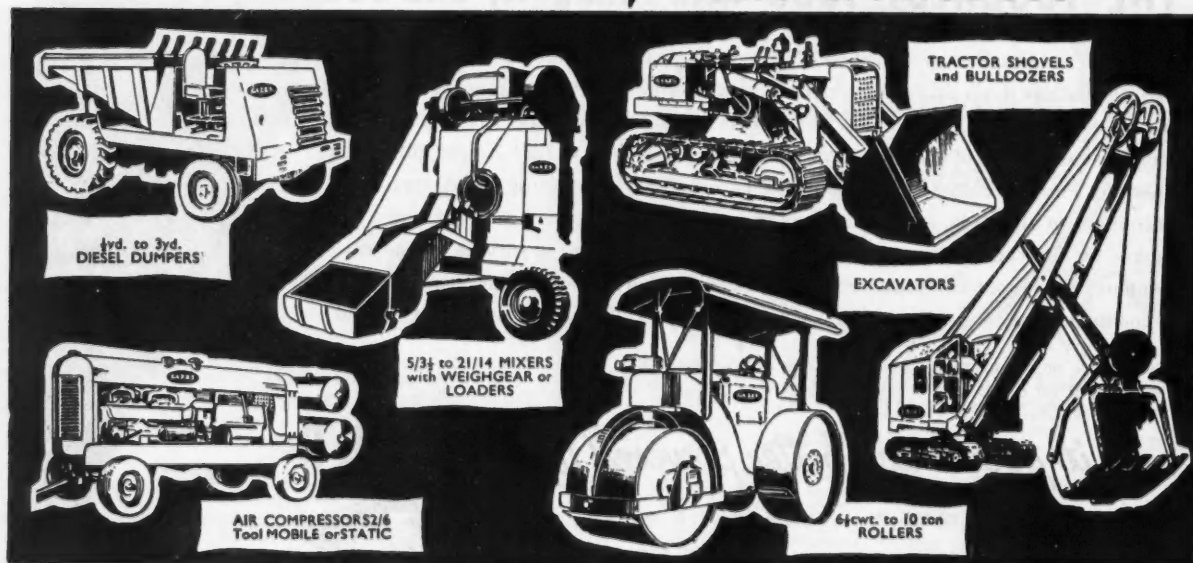
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EP 24





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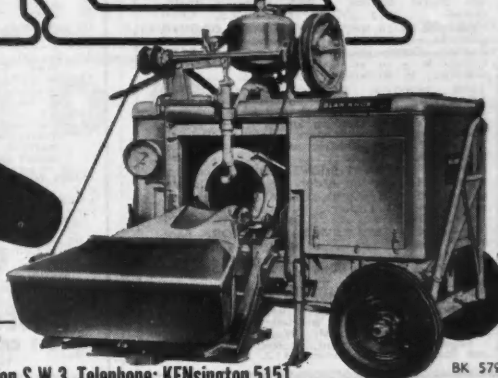
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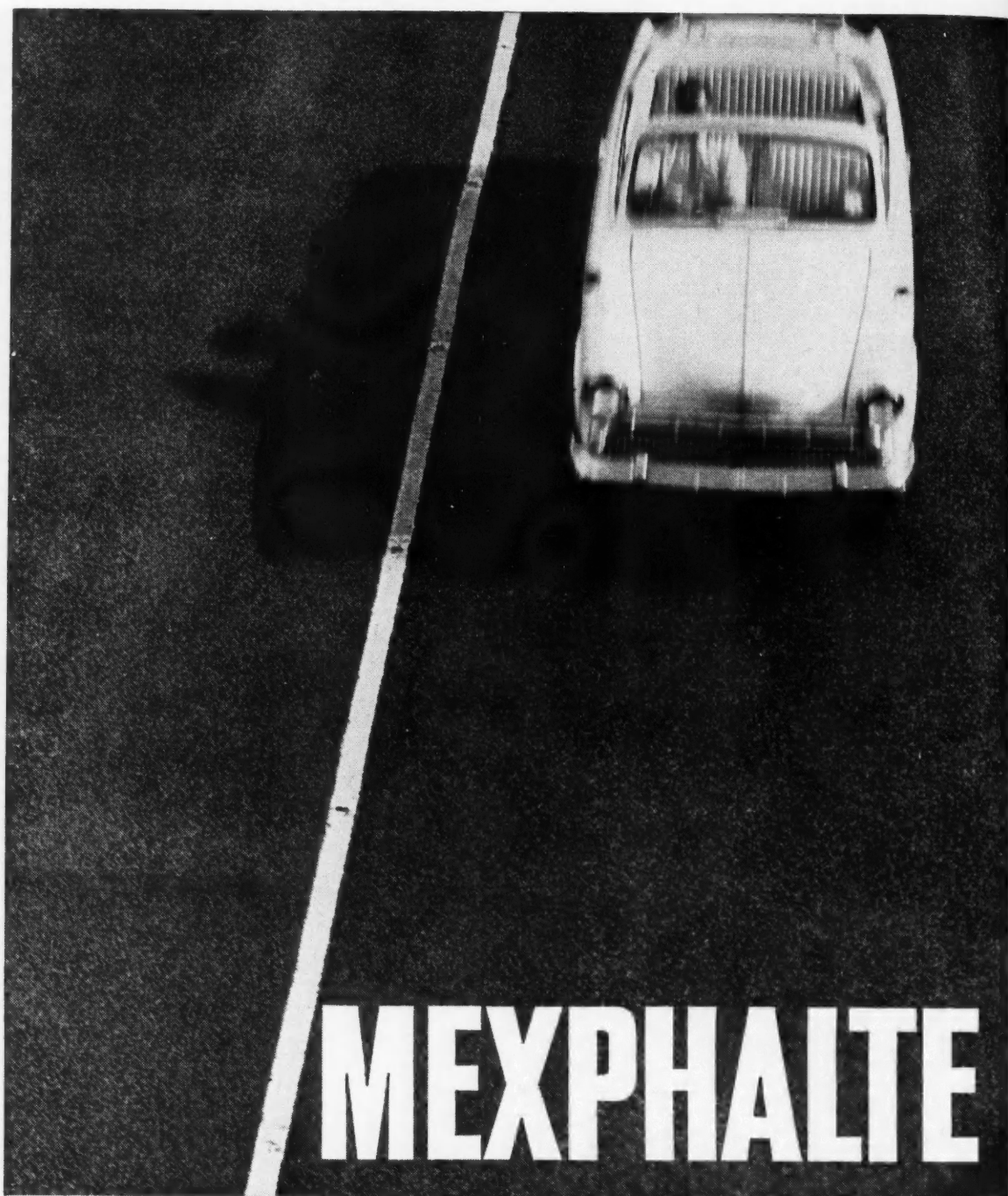
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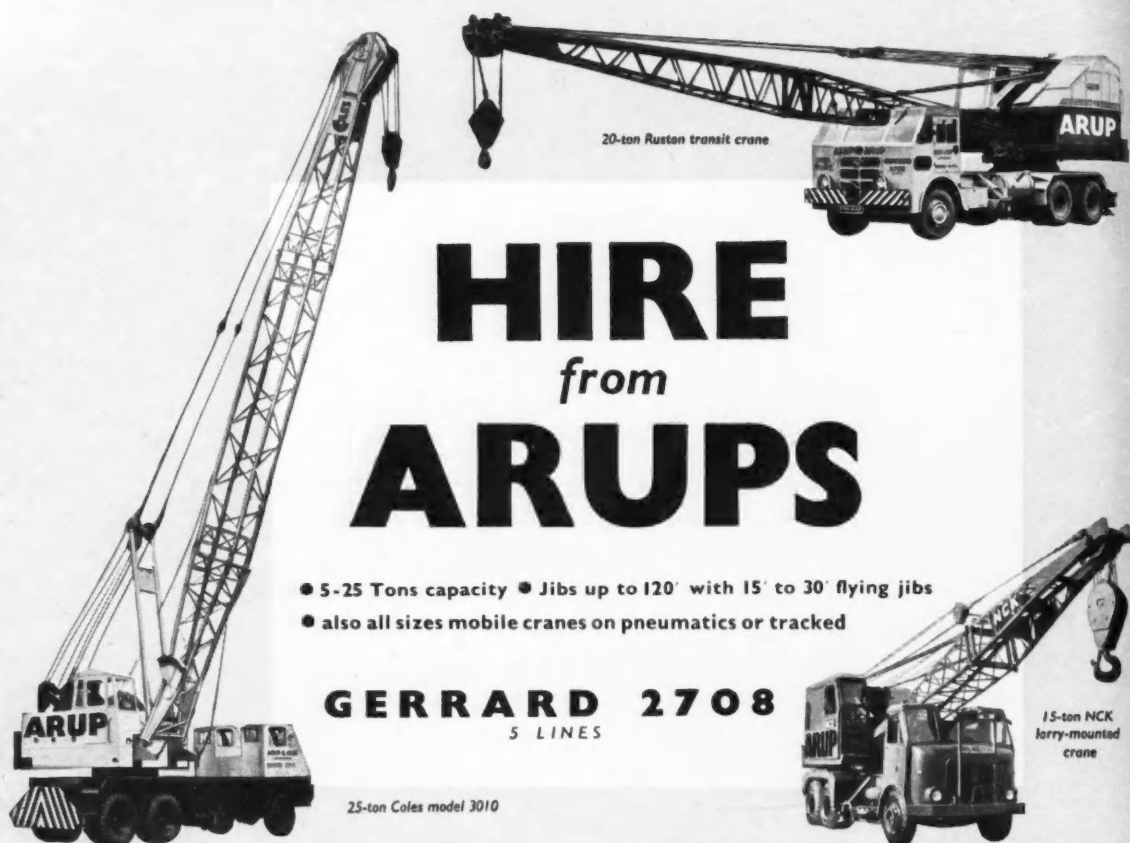
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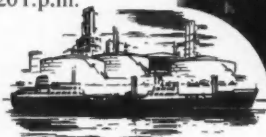
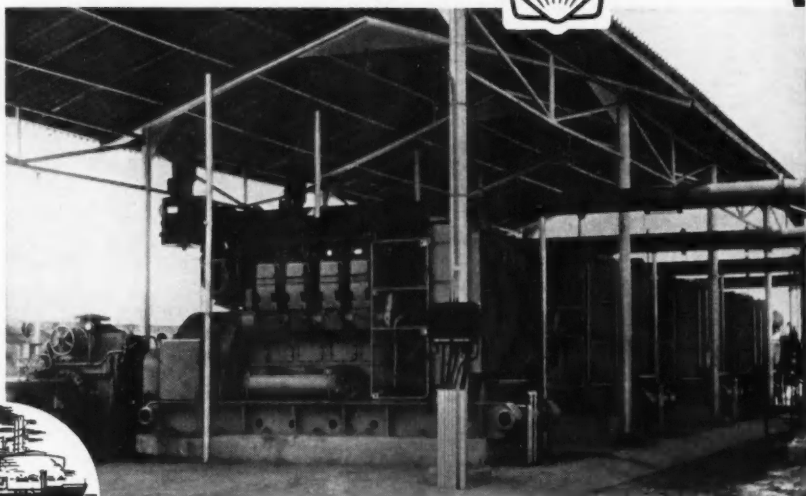
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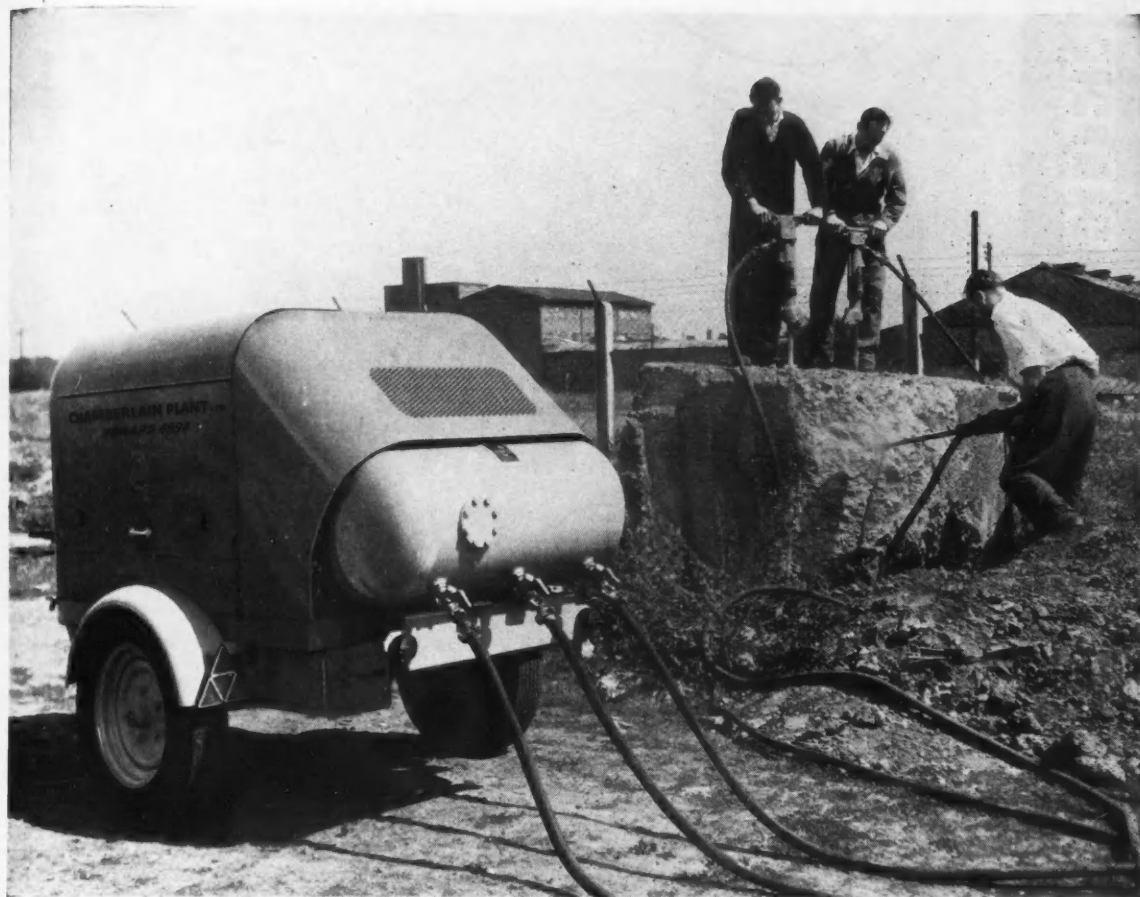
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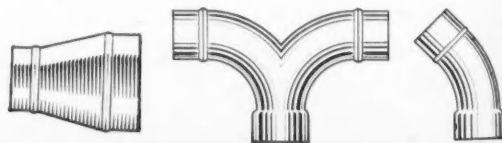


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the skip throws itself forward emptying every grain

first-time, BUT...  
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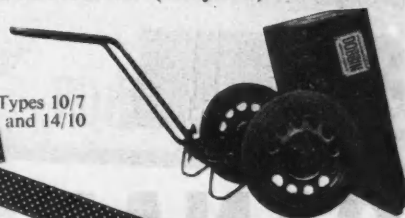
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taper, roller,



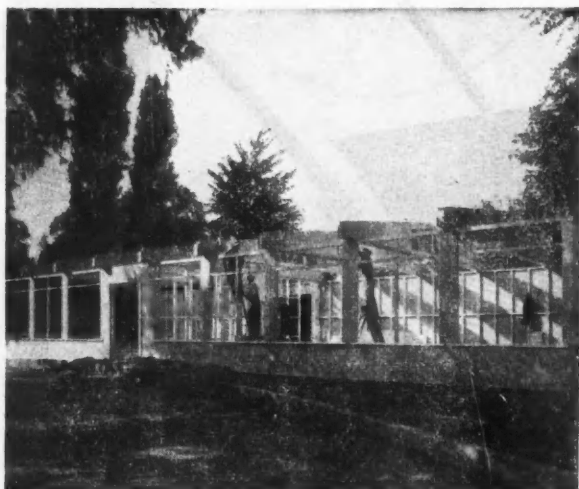
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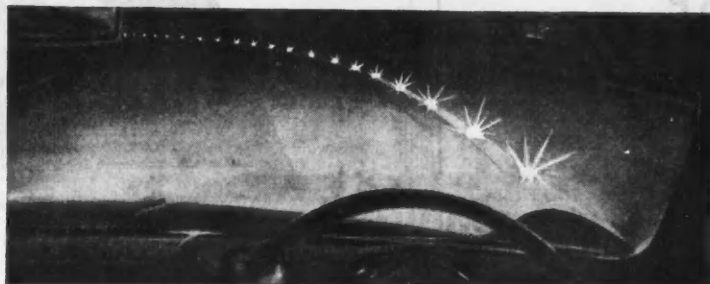
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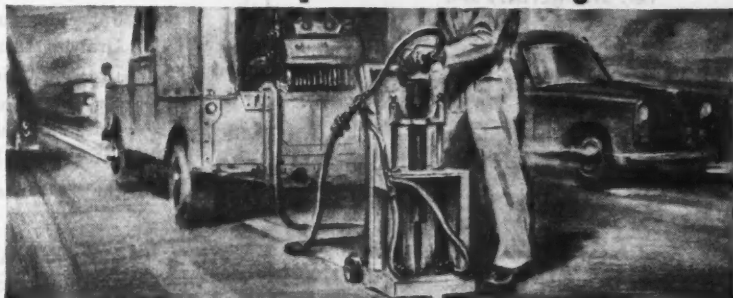


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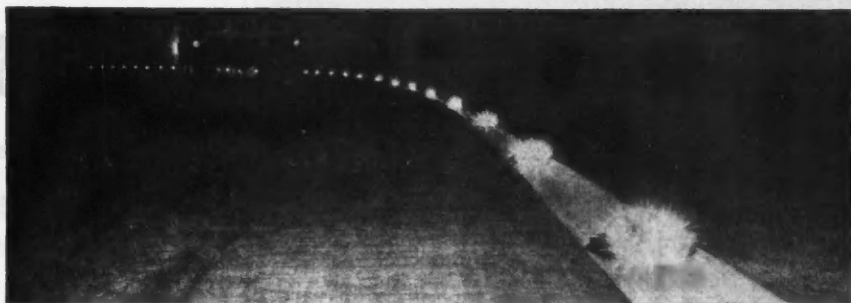
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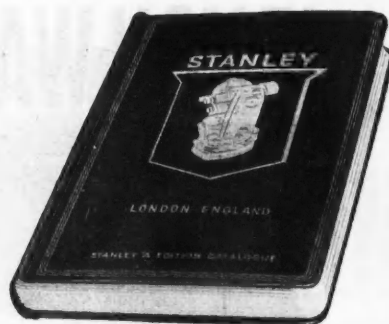
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**PRICE (with 4" equipment) . . . £326 ex works**

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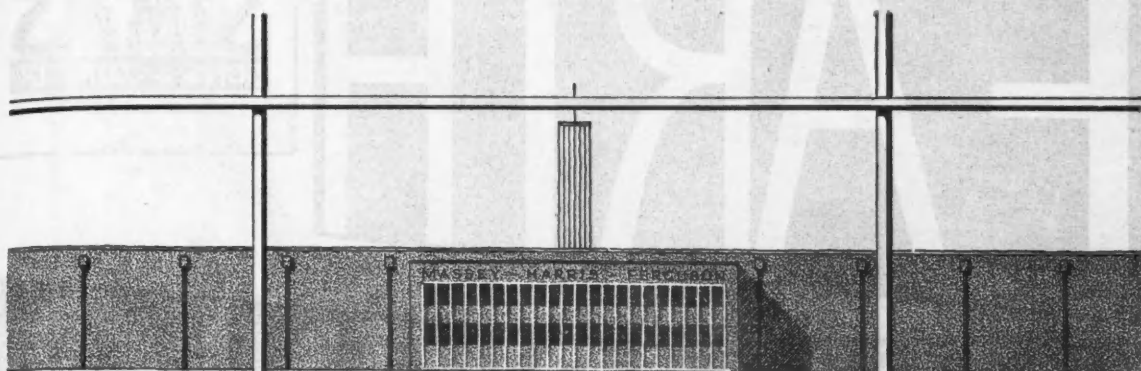
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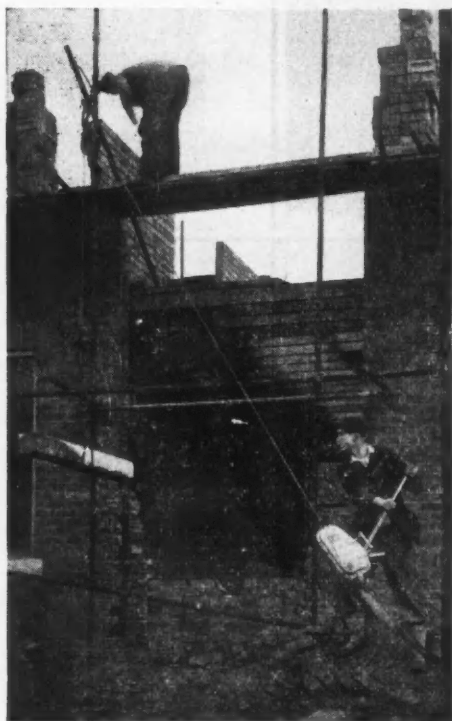
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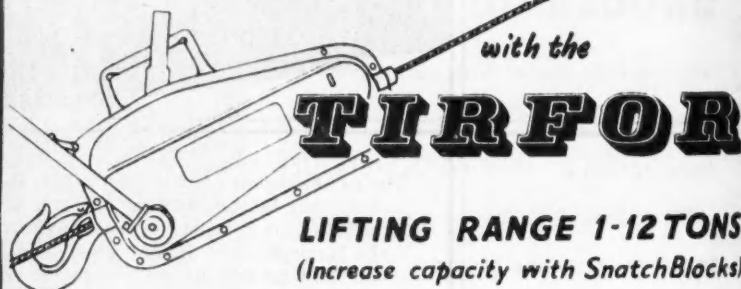
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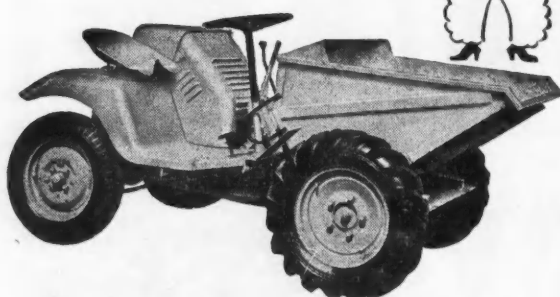
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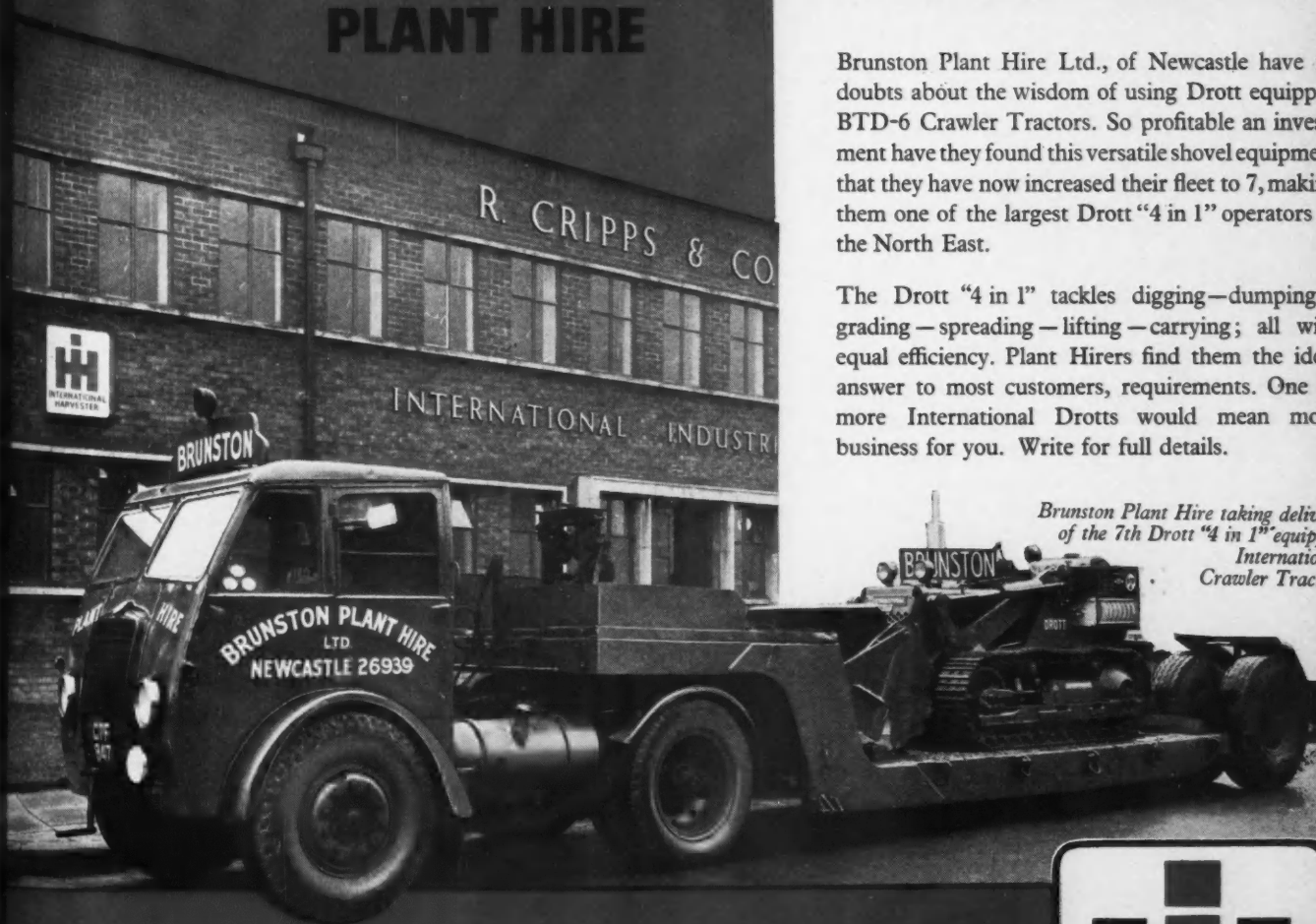
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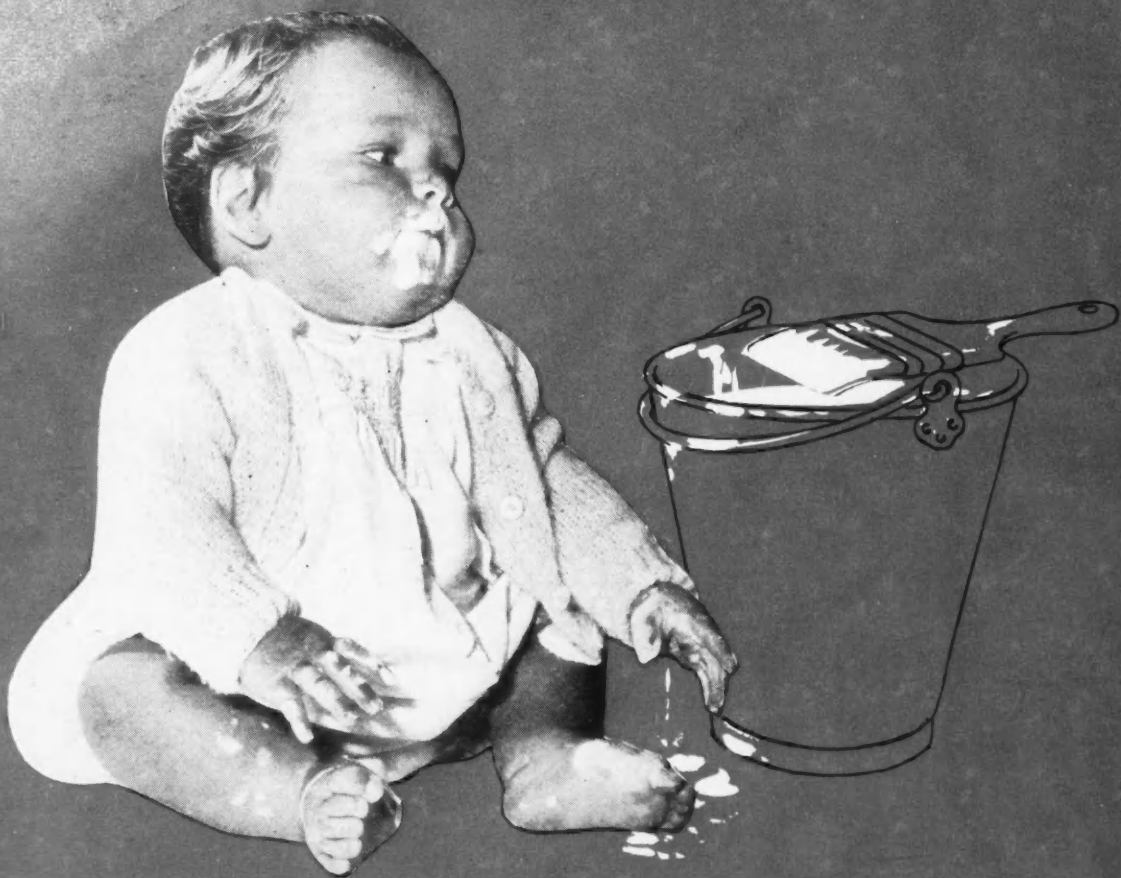
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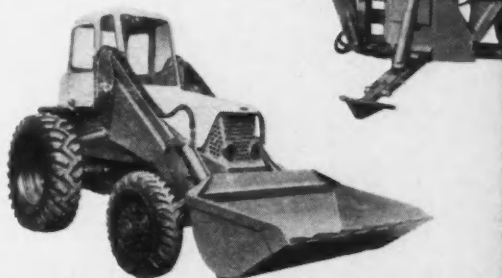
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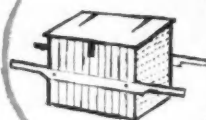
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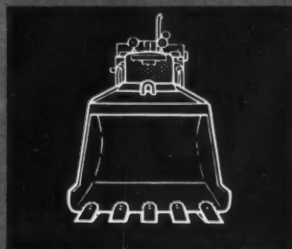
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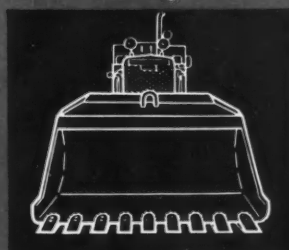
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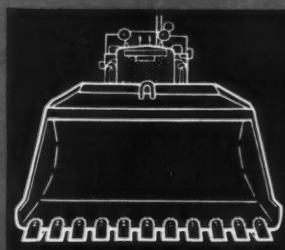
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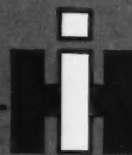
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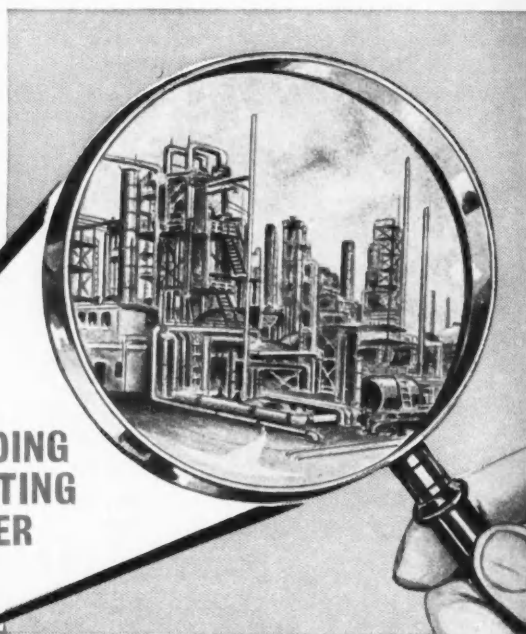
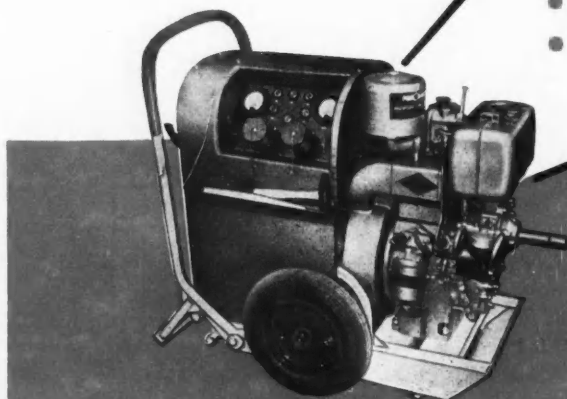
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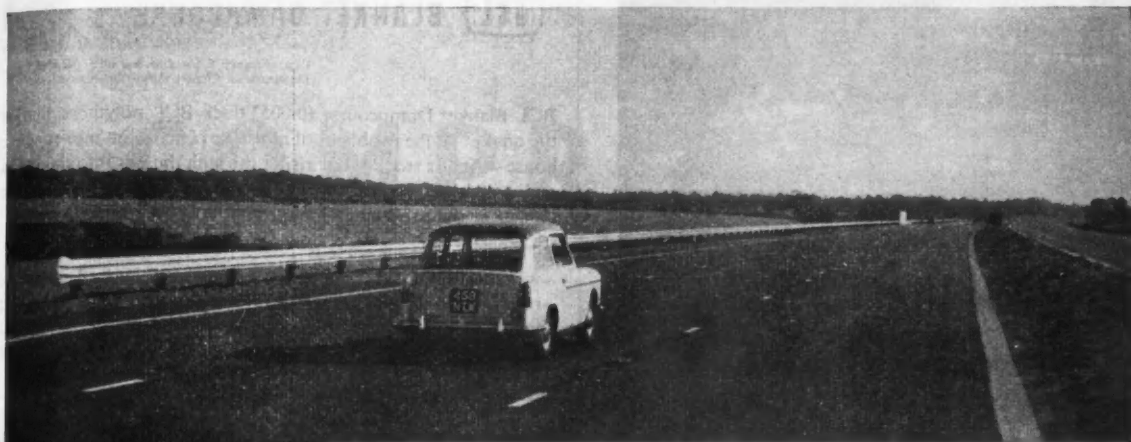
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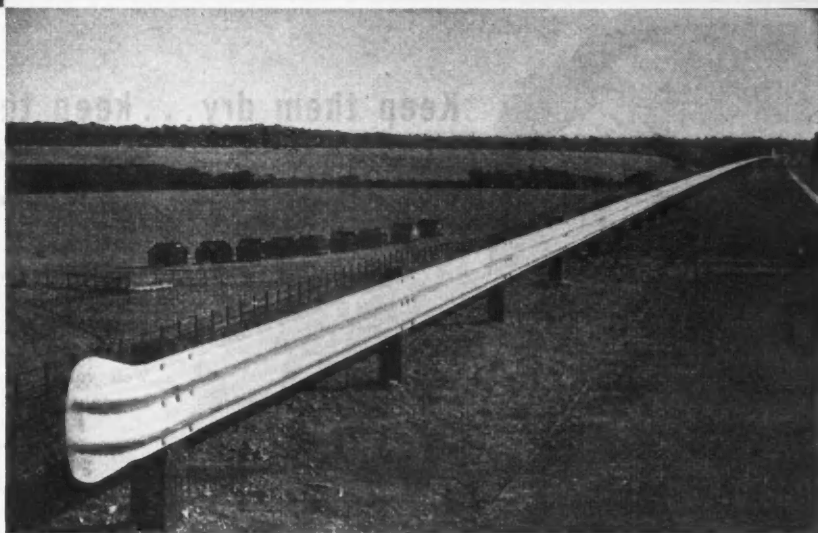
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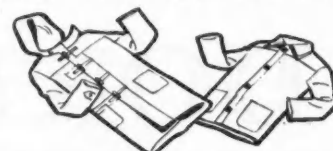
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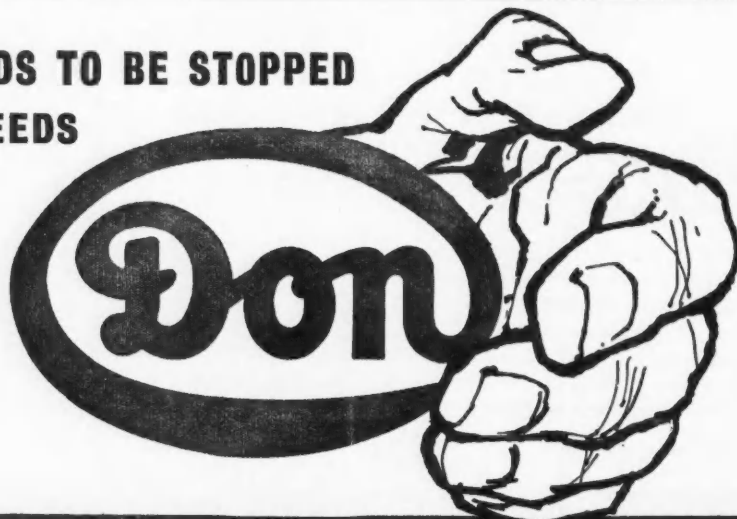
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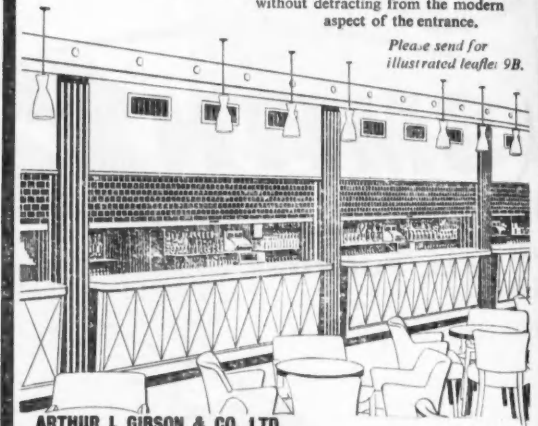
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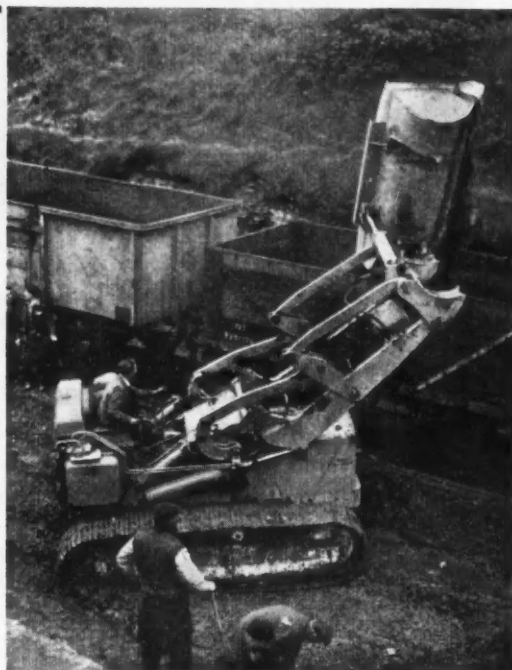
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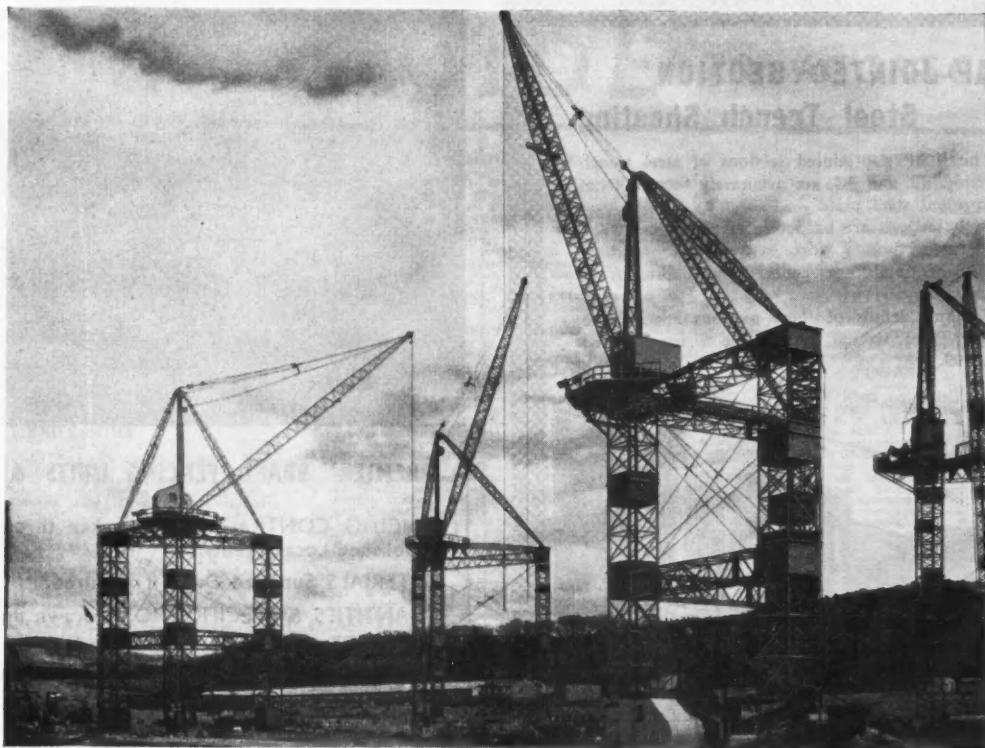
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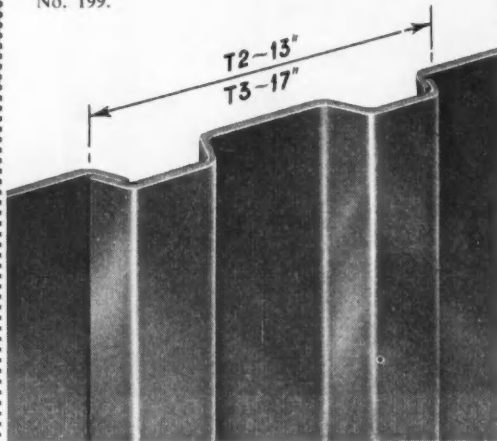


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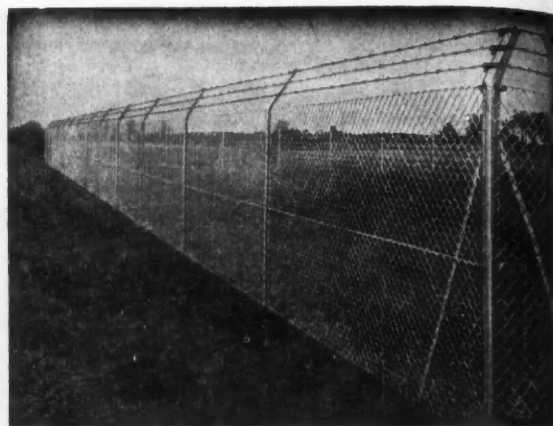


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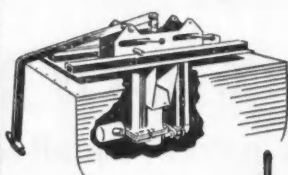
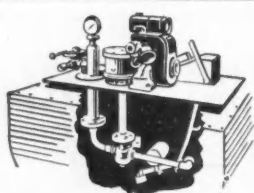
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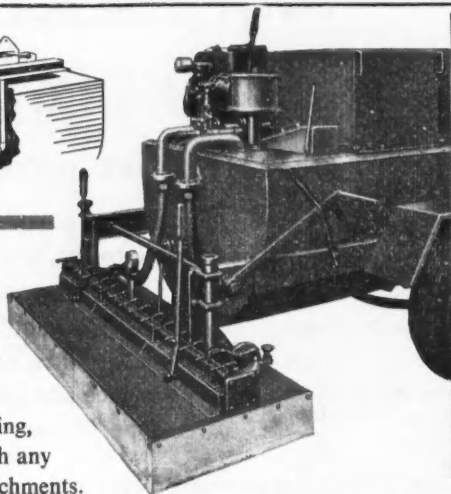
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**NORTH ROAD GRAVEL WORKS, LTD.**, The Brook, Sutton, Ely. (Tel.: Sutton 391/3.) All grades washed sand and gravel, ready-mixed concrete and spun-concrete pipes. Pit: Wimington.  
**ST. IVES SAND AND GRAVEL CO., LTD.**, 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)  
**WEBB, G. CAMBRIDGE**, 35 Magrath Avenue, Cambridge. (Tel.: Cambridge 3969 and 4353.) Supplier, at keenest rates, of "Finest Quality Only" all grades washed sand and gravel, reject stone, hogs, clinker, ashes, brick rubble, pitching, hardcore and granite chippings. All to B.S. Specifications. Delivered to any site in East Anglia.  
**WELFORD GRAVELS, LTD.**, Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) (See Bedfordshire.)

## CARDIGANSHPRE

**NASH ROCKS STONE AND LIME CO., LTD.**, Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)  
**SALOP SAND AND GRAVEL SUPPLY CO.**, Admaston, Wellington (Tel.: 961), Salop.

## CHESHIRE

**BUCKET QUARRY, Broken stone, all grades.** (Tel.: Mossley 123.) Or write Main Road, Oldham.  
**CASTLETON SAND AND GRAVEL QUARRIES, LTD.**, Pennant End Quarry, Whaley Bridge, Cheshire. (Tel.: Whaley Bridge 139.) Washed sand and gravel.  
**CAWOOD, WHARTON AND CO., LTD.**, Pitway Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 173.) Crushed limestone and tarred macadam, all grades.  
**CHESHIRE AND NORTH WALES TARRED MACADAM CO., LTD.**, Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 43.) Hard, broken limestone, dry and coated, to B.S.S. Inquiries to registered office: Market Changers, Tower Square, Tunstall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 88094.)  
**CROXEND GRAVEL, LTD.**, Cheshire, Stoke-on-Trent, Staffs. (Tel.: Stoke-on-Trent 88094.)  
**DUNNING AND SON, LTD.**, (See Shropshire.)  
**ELLSMERE SAND AND GRAVEL CO., LTD.**, Wood Lane, Ellesmere, Salop. (Tel.: Ellesmere 167.) (For details see Shropshire.)  
**HARPER AND THOMAS, LTD.**, Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)  
**HILTON GRAVEL, LTD.**, Rice Street, Liverpool Road, Manchester. (Tel.: Deansgate 5455 and 5456.) Quarries at Cheshire, Staffs. (Tel.: Tran 241.) And at Longton, Stoke-on-Trent. (Tel.: Longton 32196.)  
**HULLAND GRAVEL CO., LTD.**, Cheshire, Stoke-on-Trent. (Tel.: Cheshire 2323 and 2119.) (See Leics.)  
**PENMAENMAWR AND WELSH GRANITE CO., LTD.**, 7 Picton Road, Liverpool 15. (Tel.: Sefton Park 7261.) All sizes and gradings of crushed granite aggregate from our Collingwood Dock (Liverpool) Depot. Any quantity per day; immediate delivery or stock.  
**TERN HILL SAND AND GRAVEL CO., LTD.**, Almonington Quarries, near Market Drayton, Staffs. (Tel.: Hides 261/2/3.) (See Staffordshire for details.)  
**TRENTHAM GRAVEL CO., LTD.**, Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed and natural washed gravel. Twice washed sharp concrete sand. Plant capacity: 200 tons per day.  
**WILLIAMS, C. F.**, Bishop Street Sand Quarry, Turncroft Lane, Stockport. (Tel.: Stockport 7096.) Building and concrete sand. Bulk sand and gravel filling a speciality.

## CORNWALL

**PENTEWAN DOCK AND CONCRETE CO., LTD.**, Pentewan Works, near St. Austell. (Tel.: Mevagissey 3135/6.) Gwibbham Works, near Hayle. Pure silica gravel and grit, concretes, buildings, plastering and asphaltic sands, elvan and granite aggregates, all sizes.

## CUMBERLAND

**BROOMBYS, LTD.**, Sandisle, Milnthorpe (Tel.: 3251/2). Westmorland. (See Westmorland.)  
**ESK MANUFACTURING CO., LTD.**, Dalton Road, Carlisle, Cumberland. (Tel.: Carlisle 2-4941.) All grades washed, crushed gravel and concrete sand to B.S. Specification. Precast concrete products and partition blocks. Sand lime coloured facing and common bricks. Ex works or delivered.

## DENDIGHSHIRE

**SALOP SAND AND GRAVEL SUPPLY CO.**, Admaston, Wellington (Tel.: 961), Salop.

## DERBYSHIRE

**BALLIDON QUARRIES, LTD.**, Ballidon, near Ashbourne, Derbyshire. (Tel.: Farwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output; reliable deliveries.  
**BURROWS BROTHERS (EXCAVATIONS), LTD.**, Market Place Chambers, West Bress, Chesterfield. (Tel.: Chesterfield 7130.) Red shale, black ashes, graded clinker, fire media, stone slag, sand, gravel and hogs filling. Bulk quantity supplies.  
**HILTON GRAVEL, LTD.**, Hilton, Derby. (Tel.: Etwall 422.) Also at Mercaston. (Tel.: Brailford 215.)  
**HOVERINGHAM GRAVEL CO.**, Hoveringham, Nottingham. (Tel.: Loughdam 3171—15 lines.) (For details, see Nottinghamshire.)

## DERBYSHIRE

**HULLAND GRAVEL CO., LTD.**, Cheshire, Stoke-on-Trent. (Tel.: Cheshire 2323/4, 2119 and 2195.) Manchester Office: Hardy's Buildings, 3 Cateaton Street, Manchester, 3. (Tel.: Blackfriars 2277/8.)  
**HALISBURY AND WOOD, LTD.**, Matlock. (Tel.: 272/273.) Limestone and granite, dry or soaked gravel and sand; kerbs, slabs, blocks, posts, reconstructed and natural stone; lime and ground limestone. Lightweight aggregates, ashes, red shale.

## DEVONSHIRE

**PLYMPTON TRADING CO., LTD.**, Marsh Mills, Plympton, Plymouth. (Tel.: Plympton 2361.) Washed and graded sands for all purposes. Material sands to B.S.S. Precast concrete.

## DORSET

**BULL BROS., S. AND L., LTD.**, 126A High Street, Winchester. (Tel.: 2264.) (See Hampshire.)  
**DANGERFIELD, F. J. AND CO., LTD.**, 261A Finchley Road, London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)  
**DORSET LIMESTONES, LTD.**, Bumpers Lane, Eascom, Portland, Dorset. (Tel.: Portland 2207/8.) Tarred and bituminous macadam, foundation materials limestone for all purposes, building and gradings Portland stone aggregates and Portland castorol aggregates for reconstructed stone. By road and sea.  
**GILSON, S. C. AND SONS, LTD.**, Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)  
**HALL AND CO., LTD.**, 8 Commercial Road, Parkstone, Dorset. (Tel.: 5379.)  
**MOREYS (VERWOOD), LTD.**, Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hogs, path gravel.

## DURHAM

**BRAITHWAITE, A. AND CO., LTD.**, Knaresborough, Yorks. Quarry at Catterick. (Tel.: Old Catt. 157.) (For details see Yorkshire.)

## ESSEX

**ALRESFORD SAND AND BALLAST CO., LTD.**, Alresford Creek, near Colchester, Essex. (Tel.: Wivenhoe 341.) Pits at Alresford Creek, Brightlingsea, Stoke-by-Nayland, Bures and Holland. All grades of washed shingle, concrete sand and building sand. Road and water transport.  
**BAKER, F. AND E., LTD.**, 73 High Road, Rayleigh, Essex. (Tel.: Rayleigh 1031/2.) Pits at Great Totham, Heybridge and West Tilbury. All grades of washed material supplied and delivered; also hardcore, ashes and bricks.  
**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For data, see Leics.)  
**BENT-MARSHALL (LEYTON), LTD.**, 665-667 High Road, Leyton, E.10. (Tel.: Leytonstone 4047/8.) Sand, ballast, brick and concrete hardcore delivered all areas.  
**DANGERFIELD, F. J. & CO., LTD.**, 261A Finchley Rd., London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)  
**FERRIS PITS, LTD.**, The Limes Garage, Fencepiece Road, Barking, Essex. (Tel.: Hainault 5271/2-3001/2.) Pits at Orsett near Thurrock, Essex, and Upminster. All grades of washed aggregates, plastering and building sands supplied and delivered, also hardcore and ashes.  
**HALL AND CO., LTD.**, Manor Road, Romford. (Tel.: Romford 42321.) Pits at Aveley, Boreham and Linford, near Grays. Gravel aggregates, concrete, chipping and building sand.  
**HUNNABLE, F. A. AND SON, LTD.**, Rayne Road, Braintree, Essex. (Tel.: Braintree 151 and 1351.) Graded washed stone, lign. to reject; washed concrete sand and washed soil for road and Classified sand for asphalt. Pits at Braintree, Bocking, Heasly End, Hedingham and Alphonstone.  
**LEH BUILDING SUPPLY CO., LTD.**, Head Office, 956, London Road, Leigh-on-Sea, Essex. (Tel.: 78264—3 lines.) All grades washed material building sand, hardcore, ashes, bricks, granite.  
**PETERS AND BARNHAM, LTD.**, 309 South Street, Romford. (Tel.: Romford 44141—7 lines.) Washed and crushed gravel, all sizes; sand. Pits at Asheldham, Chigwell, St. James, Dagenham, Great Waltham, North Oxendon, Rowwell, West Thurrock.  
**READ, P. T., LTD.**, Foxlands Gravel Pit, Foxlands Crescent, Dagenham. (Tel.: Hainault 6111.) All sand, ballast and shingles supplied and delivered; also ready-mixed concrete.  
**READ, P. T., LTD.**, Fairlop Airfield, Forest Road, Ilford. (Tel.: Hainault 6111/2/3.) High-grade sands, ballast and shingles supplied and delivered; also ready-mixed concrete.  
**ST. IVES SAND AND GRAVEL CO., LTD.**, 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)  
**STANWAY CONTRACTS, LTD.**, Upper Edwards Hall, Eastwood, Southend-on-Sea. (Tel.: Eastwood 55161.) Sand and gravel pits at Rochford and Woodham Walter. Graded aggregates supplied or delivered.  
**WELFORD GRAVELS, LTD.**, Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) Washed and graded aggregates. Local Office and pits: Tilgham 287.  
**WIVENHOE SAND, STONE AND GRAVEL CO., LTD.**, Wivenhoe, near Colchester, Essex. (Tel.: Wivenhoe 231.) High-quality washed aggregates of all grades.

## GLOUCESTERSHIRE

**AMEY'S AGGREGATES, LTD.**, Lower Wootton, Boars Hill, Oxford. (Tel.: 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.  
**BENHAY AND SONS, LTD.**, Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)  
**COKE, T. F. (CHELTENHAM), LTD.**, 267 Gloucester Road, Cheltenham. (Tel.: Cheltenham 4717/487/4.) Sand, graded gravel aggregates, hardcore, limestone chippings, tarred and bituminous limestone, concrete blocks, fence posts, etc. etc.  
**CRONHALL QUARRIES, LTD.**, Cromhall, Wotton under-Edge, Glos. (Tel.: Falmid 346/7.) Concrete aggregates, pre-graded in large quantities. Tarmacadam, tarpaving, bituminous macadam and cold asphalt to B.S.S. for hand or machine laying.  
**GRIFFITHS, A. AND SONS, Churchdown, Gloucester** Pit, quarry and dredger owners. All grades and types aggregate materials. (Tel.: Churchdown 3135 & 3210.)

# CONTRACTORS' GUIDE TO AGGREGATES

## GLOUCESTERSHIRE

**HALL AND CO., LTD.**, Longmoor House, Ashton Vale Road, Bristol 3. (Tel.: 630011) Gravel aggregates, concrete, plastering and building sand.

**FOOLE (LECHLADE), LTD.**, Gravel Pit, Burford Road, Lechlade, Glos. (Tel.: Lechlade 219.)

**FAYMAAC, LTD.**, Wootton Bassett, Swindon. (Tel.: Wootton Bassett 391-5 lines.) (See Wiltshire.)

**WHITECLIFF QUARRIES AND BRICKWORKS, LTD.**, Coleford, Glos. (Tel.: Coleford 3158/9.) Tinned and bituminous limestone macadam, asphalt, concrete aggregates, dolomitic media, engineering, facing and common bricks for all purposes. Delivery road or rail.

## HAMPSHIRE

**AMEY'S AGGREGATES, LTD.**, Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421-10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billings, Northampton (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)

**BULL BROS. S. AND L., LTD.**, 126A, High Street, Winchester. (Tel. 2264.) Concrete aggregates (reconstituted, pit-mixed, washed to meet any specification) also ballast, hoggin, path gravel and sand from own pits at Fawley, Lockerley, Ringwood, Romsey, Swan and Totton.

**DANGERFIELD, F. J. & CO., LTD.**, 261A Finchley Road, London, N.W.3. (Tel.: HAMPTON 8044/8.) For all road aggregates, kerbs, etc. (See London.)

**GILSON, S. C. AND SONS, LTD.**, Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)

**HALL AND CO., LTD.**, Baiter Wharf, Marine Parade, Southampton (Tel.: Southampton 21234), and at Portsmouth. Pits at Ringwood, Highbridge and Totton. Gravel aggregate, concrete, plastering and building sand.

**HASKINS, G. AND SONS, LTD.**, Queen Street, Emsworth. For washed sands and graded aggregates, path and road gravel, hoggin, clinker, ashes. (Tel.: Emsworth 2693.)

**MOREYS (VERWOOD), LTD.**, Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggin, path gravel.

**NEW MILTON SAND AND BALLAST CO., LTD.**, Lynton Road, New Milton, Hants. (Tel.: 37 and 566.) Guaranteed uncrushed, washed, screened and graded concrete aggregates. All sizes. Washed sharp and fine sands.

**PRIVETT, W. G. AND SONS, LTD.**, Drayton Lane, Portsmouth. (Tel.: Gosham 70059.) Concrete aggregates, building sand, hoggin, ashes, washed and graded filter media, etc.

**RALPH OF BABINGSTON, LTD.**, 37 Kemphill Lane, Basingstoke, Hants. (Tel. 85.) Concrete aggregates, building sand, path gravel, hoggin, etc.

**WRAYBURY SAND AND GRAVEL CO., LTD.**, Station Road, Theale, Reading. (Tel.: 373.)

**WESSEX SAND AND GRAVEL CO., LTD.**, 126 Hillside Ave., Southampton. (Tel.: 56616.) Pits at Romsey and Fair Oak. Concrete aggregates, hoggin, building sand, etc.

## HEREFORDSHIRE

**BENGRIY AND SONS, LTD.**, Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) Suppliers of all grades of crushed concrete aggregates, road metalising, pitching stone, hardcore and coated macadam.

**DINMORE GRAVEL AND STONE CO., LTD.**, 5A King Street, Hereford. (Tel.: Hereford 5523.) Suppliers of all grades of concrete aggregates, sand, pitching stone and hardcore.

**HARPER AND THOMAS, LTD.**, Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)

**NASH ROCKS STONE AND LIME CO., LTD.**, Presteigne, Radnor. (Tel.: Presteigne 352.) All grades of tinned and bituminous macadam, roadstones, chippings and concrete aggregates, etc.

**OLD RADNOR TRADING CO., LTD.**, Kingston. (Tel. 11.) Granite and limestone aggregates, coated macadam, concrete products.

**SALOP SAND AND GRAVEL SUPPLY CO., LTD.**, Admeston, Wellington (Tel. 961), Salop.

**WHITECLIFF QUARRIES AND BRICKWORKS, LTD.**, Coleford, Glos. (Tel. 3158/9.) (See Gloucestershire.)

## HERTFORDSHIRE

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)

**DANGERFIELD, F. J. AND CO., LTD.**, 261A Finchley Road, London, N.W.3. (Tel.: HAMPTON 8044/8.) For all road aggregates, kerbs, etc. (See London.)

**EASTWOODS SALES, LTD.**, Eastwood House, City Road, E.C.1. (Tel.: Clerkenwell 2040.) Broxbourne pit. (Tel.: Hoddendon 2456.) Producers and distributors of all grades of washed aggregates.

**GABRIEL, C. LTD.**, Palmers Lane, Enfield, Middx. (Tel. HOWARD 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.

**HALL AND CO., LTD.**, Railway Yard, Orchard Road, Stevenage (Tel.: 775), and at Hatfield. Gravel aggregates, concrete, plastering and building sand.

**ST. IVES SAND AND GRAVEL CO., LTD.**, 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)

**WEBB, G., CAMBRIDGE.**, 35 Magrath Avenue, Cambridge. (Tel. 3969/4353.) (See Cambridgeshire.)

**WINDFIELD, HENRY, LTD.**, Pix Farm Lane, Hemel Hempstead. (Tel.: Berkhamsted 1208/9.) Pits at Watford, Leighton Buzzard, Heath and Rease, and Bedford.

## HUNTINGDONSHIRE

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)

**DANGERFIELD, F. J. AND CO., LTD.**, 261A Finchley Road, London, N.W.3. (Tel.: HAMPTON 8044/8.) For all road aggregates, kerbs, etc. (See London.)

**FERRERS AND AGGREGATES, LTD.**, Northampton Road Quarries, Rushden (2354/5). (See Northants.)

**GRAVEL PRODUCTS GROUPS, LTD.**, St. Neots, Hunts. (Tel.: St. Neots 123.) Pits at Little Paxton, near St. Neots. (Tel.: St. Neots 308.) Deliveries in Beds, Hunts and South Cambs.

**MENE BARGE AND LIGHTER CO., LTD.**, Market Chambers, Peterborough (Tel. 5534/5), and Ship End Quarries, Wansford, near Peterborough (Tel.: Wansford 384/3). Roadstone, hardcore, broken stone, ballast, ash, siliceous clay and sand.

**ST. IVES SAND AND GRAVEL CO., LTD.**, 22 The Broadway, St. Ives. (Tel.: St. Ives 2441/2/3/4.) Producers of all grades of washed aggregate. Ready mixed concrete. Precast concrete of every description.

**WEBB, G., CAMBRIDGE.**, 35 Magrath Avenue, Cambridge. (Tel. 3969/4353.) (See Cambridgeshire.)

**WELFORD GRAVELS, LTD.**, Head Office: Goldington, Bedford. (Tel. 4587/8/9.) (See Bedfordshire.)

## KENT

**BRISTED SAND PITS, Brasted, Kent (Tel. 586.)** London Office: 10A Ellery Street, S.E.15. (Tel.: New Cross 3337.) Soft and plastering sands, lime and sand-mix, dry, hardcore, S.H. bricks, ashes etc.

**BROWN BROS. (SITTINGBOURNE), LTD.**, Chalkwell Road, Sittingbourne, Kent. (Tel.: Sittingbourne 330.) Sand, ballast, shingle, hardcore, clinker, breeze blocks, etc.

**CLUBB, J. LTD.**, Dartford, Kent. (Tel.: Dartford 25431.) Pits in North Kent, Medway area and Sevenoaks district. All washed and crushed gravel aggregates, concrete and building sand.

**DIAMOND TREAD CO. (1938), LTD.**, Ditton Court Quarry, Larkfield, near Maidstone. (Tel.: West Malling 3444.) Quarryowners: tarmacadam, bituminous macadam and dry road stone manufacturers and suppliers. Head Office: 21-22 Old Bailey, London, E.C.4. (Tel.: City 7001-10 lines.)

**DIAMOND TREAD CO. (CHART), LTD.**, Swan Lane Quarry, Little Chart, Ashford, Kent. Quarry-owners: tarmacadam, bituminous macadam and dry roadstone suppliers. All inquiries to Area Office: Ditton Court Quarry, Larkfield, near Maidstone, Kent. (Tel.: W. Malling 444.)

**HALL AND CO., LTD.**, Canning Street, Maidstone (Tel.: Maidstone 51051), and at Folkestone and Hayes. Pits at Lunford, near Larkfield. Gravel aggregates, concrete, plastering and building sand. Surecrete precision-mixed concrete.

**HARRIS, M. P. AND CO., LTD.**, Station Road, Paddock Wood, Kent (Tel. 385.) (See Sussex.)

**TILBURY CONTRACTING AND DREDGING CO., LTD.**, Postley, Maidstone. (Tel.: Maidstone 55401/2/3.) Suppliers of tinned, bituminous and dry Kentish ragstone, sea walling, asphalt fillers, Scotch granite and kerbing.

## LANCASHIRE

**BROOMBYS, LTD.**, Sandeids, Milnthorpe (Tel. 3251/2), Westmorland. (See Westmorland.)

**BUCKTON QUARRY**, Broken stone, all grades. (Tel.: Mossley 123.) Or write Main Road, Oldham.

**CASTLETON SAND AND GRAVEL QUARRIES, LTD.**, Trows Lane, Castleton, nr. Rochdale. (Tel.: Castleton 57100.) Lee Quarries, Bacup (Tel.: Bacup 287.) Washed pit sand, crushed washed stone aggregates; pitching stone.

**CROFT GRANITE, BRICK AND CONCRETE CO., LTD.**, West Bank, Widnes. (Tel.: 2656.) "Kubitzed" granite aggregate to B.S.S., tinned and bituminous macadam, cold asphalt, "Croftmaite" Wet Mix, filter media, concrete products.

**CROXDEN GRAVEL, LTD.**, Cheadle, Stoke-on-Trent, Staffs. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.

**DUNNING AND SON, LTD.** (See Shropshire.)

**HARTLEY, JOHN W., LTD.**, Lundsfield Quarry, Carnforth, Lancs. (Tel.: Carnforth 100.) Large producers of highest quality washed sands, clean washed natural pebble and crushed gravel aggregates for all constructional purposes.

**HILTON GRAVEL, LTD.**, Rice Street, Liverpool Road, Manchester. (Tel.: Deansgate 5455 and 5456.)

**BUCKTON QUARRY**, Broken stone, all grades. (Tel.: Mossley 123.) Or write Main Road, Oldham.

**HULLAND GRAVEL CO., LTD.**, Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: Hardacre, 3 Cheadle Street, Manchester. (Tel.: Blackfriars 2277/8.)

**PENMAENMAWR AND WELSH GRANITE CO., LTD.**, all sizes and gradings of crushed granite aggregate. Immediate delivery to all parts of the country. Liverpool and Preston Depots: Office: 7 Picton Road, Liverpool, 15. (Tel.: Sefton Park 7261.) Manchester Depot: Office: Cornbrook Road, Manchester, 15. (Tel.: Trafford Park 3830.)

**ROUND-O QUARRIES, LTD.**, Helsby Street, Warrington. (Tel.: 3551-4 lines.) Building and concrete sand and shale.

**TERN HILL SAND AND GRAVEL CO., LTD.**, Almonston Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)

**TRENTHAM GRAVEL CO., LTD.**, Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel, shingle, concrete sand, plastering sand. Plant capacity: 2,000 tons per day.

**WELFORD GRAVELS, LTD.**, Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) Local Office and pits, Shortley 3923.

**WITHERS LIMESTONE, LTD.**, Black Lane Quarry, Carnforth. (Tel.: Carnforth 327.) Graded limestone aggregate to B.S.S., all sizes. Immediate delivery ex-stock.

**X.L. GRANITE (INGLETON), LTD.**, Head Offices: Clapham, via Lancaster. (Tel.: Clapham 318/9.) Works: Tel.: Ingleton 231. All sizes and gradings of Ingleton granite aggregate.

## LEICESTERSHIRE

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London Office—Norwood Hill 115.) Best Leicester-shire grey granite, dry and coated gradings to any specification, cold asphalt and wet mix. Prompt road/rail delivery.

**BRUNTINGTHORPE GRAVELS, LTD.**, Gilmorton, near Rugby. (Tel.: Lutterworth 16.) All sizes gravel aggregate, building and concrete sand to B.S.S., scientifically balanced ballast.

**CLIFFE HILL GRANITE CO., LTD.**, Markfield, near Leicester. (Tel.: 5612/3.) Granite aggregates to B.S.S. All sizes. Tinned and bituminous granite, concrete slabs and kerbs. Transit-mixed concrete.

**CROFT GRANITE, BRICK AND CONCRETE CO., LTD.**, Croft, near Leicester. (Tel.: Narborough 2261-4 lines.) "Kubitzed" granite aggregate to B.S.S., tinned and bituminous macadam, cold asphalt, "Croftmaite" Wet Mix, filter media, concrete products.

**DUSTON STONE QUARRIES, LTD.**, New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)

**ENDERBY AND STONEY STANTON GRANITE CO., LTD.**, 21 New Walk, Leicester. (Tel.: 5668/2.) Quarries at Mountsorrel. Quarries at Enderby. London Offices: 29 Dorset Square, N.W.1. (Tel.: Amb. 1141.)

**HILTON GRAVEL, LTD.**, Linsington Fields, near Shardlow, Derby. (Tel.: Shardlow 266.)

**HOVERINGHAM GRAVEL CO., LTD.**, Hoveringham, Nottingham. (Tel.: Loughdam 3171-15 lines.) (For details, see Nottinghamshire.)

**MOUNTSOREL GRANITE CO., LTD.**, 21 New Walk, Leicester. (Tel.: 5668/2.) Quarries at Mountsorrel, near Loughborough. 4 in. pink granite a speciality. London Office: 29 Dorset Sq., N.W.1. (Amb. 1141.)

## LEICESTERSHIRE

**WANLIP GRAVELS, LTD.**, Wanlip Road, Bywath, Leicester. Any size or grading, scientifically balanced ballast. All to B.S.S. (Tel.: Bywath 3127 and 2797.)

**WELFORD GRAVELS, LTD.**, Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) (See Northamptonshire.)

**WREAKE VALLEY GRAVELS CO., LTD.**, Melton Mowray. (Tel.: Pits—Rotherham or head office Melton 2488.) All grades washed aggregates and sand.

## LINCOLNSHIRE

**BULLIMORES SAND AND GRAVEL, LTD.**, Iron Witham, Grantham. (Tel.: Thilston 223.) Building sand, hardcore, ashes. All grades washed and graded.

**BURROWS BROTHERS (EXCAVATIONS), LTD.**, Market Place Chambers, West Bars, Chesterfield. (Tel. 7130.) (For details, see Derbyshire.)

**CONINGSBY SUPPLY CO., LTD.**, Registered Office: The Broadway, Woodhall Spa, Lincs. (Tel.: Woodhall Spa 3150.) Screened limestone, hardcore, pitching, filling, flint, hoggin. Ex-quarries or delivered.

**DOW-MAC (PRODUCTS), LTD.**, Tallington, Stamford. All grades washed sand and gravel. (Tel.: Market Deeping 2301.)

**EAST MIDLANDS BUILDERS SUPPLY CO., LTD.**, 21 Cantydyke West, Barton-on-Humber, Lincs. (Tel. 2189.) All grades washed sand and gravel, roadstone, hardcore, washed silica sand.

**GIBBONS, F. B. AND SONS, LTD.**, Registered Office: House, Market Deeping, near Peterborough. (Tel.: Market Deeping 3321/2383.) Pits at Langthorpe, near Peterborough. (Tel.: Market Deeping 2311.) All grades washed sand and aggregates.

**HARTSHOLME GRAVEL AND SAND CO., LTD.**, Hartsholme Wood, Doudington Road, Lincoln. Selling agents: Hartsholme Sales, Ltd., 17 West Parade, Lincoln. (Tel.: Lincoln 23391.)

**HOVERINGHAM GRAVEL CO., LTD.**, Hoveringham. (For details, see Nottinghamshire.)

**PETERBOROUGH QUARRIES, LTD.**, Sandby Road, Peterborough. (Tel.: Market Deeping 2355-3 lines.) Quarry in Ropley, all grades of hardcore and broken stone. (See also Northamptonshire.)

**POLLARD, C. AND SON (TALLINGTON), LTD.**, Walk House, Langford, Peterborough. Pits in Tallington, near Stamford. Lincs. (Tel.: Market Deeping 2140.) All grades washed sand and aggregates. For "Supercrete" ready mixed concrete, "Phone Market Deeping 3132." 1240.)

**TRENTFORD GRAVELS, LTD.**, Head Office: Deansgrove, Grimsby. (Tel.: Grimsby 5354.) Washed and graded gravel and sand, roadstone, hardcore, slag, tarmac, ashes, etc. Pits and quarries throughout the county.

## LONDON

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)

**COX, H. AND SONS, LTD.**, 33 Southamton Way, Camberwell, S.E.5. (Tel.: Rodney 2215-3 lines.)

**CROFT GRANITE, BRICK AND CONCRETE CO., LTD.**, 128-136 High Street, Edgware, Middlesex. (Tel.: Edgware 9076/7.) "Kubitzed" granite aggregate to B.S.S., tinned and bituminous macadam, cold asphalt, "Croftmaite" Wet Mix, filter media, concrete products.

**DANGERFIELD, F. J. AND CO., LTD.**, 261A Finchley Road, N.W.3. (Tel.: HAMPTON 8044/8.) Granite, limestone or slag, coated or dry, all sizes and pitching, granite and wet mix, lean concrete and other minerals by road or rail, or ex-London stock.

**DORSET LIMESTONES, LTD.**, Bumpers Lane, Epsom, Portland, Dorset. (Tel.: Portland 2207/8.) (For details, see Dorset.)

**DRINKWATER, W. W. (WILLESDEN), LTD.**, Dudden Hill Lane, Willesden, N.W.10. (Tel.: GLADSTONE 624/5.) Pits: Rush Green, Denham, Bucks. (Tel.: Denham 2241/2/3.) Also Staines Road, Hounslow Heath, Middlesex. (Tel.: Hounslow 6222/3.)

**GABRIEL, C. LTD.**, Palmers Lane, Enfield, Middx. (Tel. HOWARD 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.

**HALL AND CO., LTD.**, Chantry House, Eccleston Street, S.W.1. (Tel.: Sloane 7122), and at East Dulwich and Poplar. Washed aggregates and building sand, concrete, plastering and building sand.

**KEEN, W. J. AND SONS**, 18 Granville Road, Epping, Essex. (Tel.: Epping 2520.) All sands, ballast, shingles and shingles supplied and delivered; also ready mixed concrete. Pits: Fairlop Airfield, Forest Road, Ilford, Essex. (Tel.: Hainault 611/2/3.)

**ROADS RECONSTRUCTION (1934), LTD.**, Stockley Lane, West Drayton, Middlesex. (Tel.: West Drayton 3041.) All sizes broken limestone, dry and coated to British Standards.

## MERIONETHSHIRE

**SALOP SAND AND GRAVEL SUPPLY CO., LTD.**, Admeston, Wellington (Tel. 961), Salop.

## MIDDLESEX

**CROSS, GEO. C. AND CO., LTD.**, Ironbridge, Uxbridge Road, Southall. (Tel.: Southall 2264/5/6.) Sand, ballast, shingle, hardcore, ashes, etc.

**DRINKWATER, W. W. (WILLESDEN), LTD.**, Staines Rd., Hounslow Heath, Middx. (Tel.: Hounslow 6222/3.)

**GABRIEL, C. LTD.**, Palmers Lane, Enfield, Middx. (Tel. HOWARD 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.

**GRUNDY, S.**, Harting Road, Heston, Middlesex. (Tel.: Uxbridge 4156.) Sand, ballast, shingle, hardcore, ashes, excavation and demolition.

**HALL AND CO., LTD.**, Chantry House, Eccleston Street, S.W.1. (Tel.: Sloane 7122), and at Ashford and Brentford. Pit at Bedford, near Feltham. Gravel aggregates, concrete, plastering and building sand.

**LONDON BALLAST CO., LTD.** (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.

**STUART MACEY, LTD.**, Gordon Road, High Wycombe. (Tel.: High Wycombe 2591/2.)

**THAMES SAND AND GRAVEL CO., LTD.**, Fordbridge Road, Shepperton. (Tel.: Walton-on-Thames 2316.) Gravel aggregates, concrete, plastering and building sand.

**WRAYBURY SAND AND GRAVEL CO., LTD.**, Pit at Wraybury. (Tel.: Wraybury 164.) Gravel aggregates, concrete, plastering and building sand.



# CONTRACTORS' GUIDE TO AGGREGATES

## MID-WALES

**BENRY AND SONS, LTD.**, Llanmor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)  
**ELLSMERE SAND AND GRAVEL CO., LTD.**, Wood Lane, Ellesmere, Salop. (Tel.: Ellesmere 167.) (For details, see Shropshire.)  
**HARPER AND THOMAS, LTD.**, Baynton Hill Quarry, Shrewsbury. (See Shropshire for details.)  
**NASH ROCKS STONE AND LIME CO., LTD.**, Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)  
**OLD RADNOR TRADING CO., LTD.**, Quarries in Radnorshire. (Tel.: Kingston 11.) (See Herefordshire.)  
**SALOP SAND AND GRAVEL SUPPLY CO.**, Admaston, Wellington (Tel. 961), Salop.  
**TERN HILL SAND AND GRAVEL CO., LTD.**, Alington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)

## MONMOUTHSHIRE

**IN-SITU CONCRETE, LTD.**, Victoria Works, Ebbw Vale (Tel. 3032) and Phoenix Works, Cardiff (Rhwylina 2360) for limestone and slag aggregates, ready-mixed concrete, tarmacadam, media, filling, etc., kerbs and gatings.  
**MONMOUTHSHIRE ASSOCIATED QUARRIES, LTD.**, Head Office: 18 Chepstow Road, Newport, Mon. (Tel.: Newport 981/1/2.) Suppliers of all grades of concrete aggregates, road metal, pitching stone, tarmacadam and bituminous macadam in limestone, dolomite and blue pennant stone. Quarries throughout county.  
**WHITELIFF QUARRIES AND BRICKWORKS, LTD.**, Colford, Glos. (Tel. 3158/9.) (See Gloucestershire.)

## MONTGOMERYSHIRE

**HARPER AND THOMAS, LTD.**, Baynton Hill Quarry, Shrewsbury. (See Shropshire for details.)  
**NASH ROCKS STONE AND LIME CO., LTD.**, Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)  
**SALOP SAND AND GRAVEL SUPPLY CO.**, Admaston, Wellington (Tel. 961), Salop.

## NORFOLK

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)  
**FRICKENHAM GRAVEL CO., LTD.**, The Brook, Sutton, Ely, Cambs. (Tel.: Sutton 391/3.) Washed sand and gravel. Pits: Felwell.  
**JOHNSON, F. C. H., LTD.**, Station Road, Terrington St. Clement, 248. Washed and screened gravel, roadstone, washed shales, fine sands. (See Leics.)  
**INHOPE GRAVEL PITS, LTD.**, Harvey Lane, Norwich. (Tel.: Norwich 332434.) Washed and graded aggregates, stone and gravel delivered to all parts of Norfolk and Suffolk.

## NORTHAMPTONSHIRE

**AMEY'S AGGREGATES, LTD.**, Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 216.) Billings, Northampton (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.  
**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)  
**BICESTER STONE CO., LTD.**, Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone macadam, dry, pitched stone, hardcore, etc.  
**HILLING GRAVEL CO., LTD.**, Station Road, Billing, Northampton. (Tel.: Cogenhoe 219.) London office: 21 Berkeley Square, W.1. (Tel.: Mayfair 6341.)  
**BRAYBROOK, E. W., LTD.**, New Road, Higham Ferrers, Northants. (Tel.: Rushden 3344 and 3345.) All grades of washed and graded aggregates to B.S. Building sand, hardcore, etc.  
**DANGERFIELD, F. J. AND CO., LTD.**, 261A Finchley Road, London, N.W.3. (Tel.: HAMPTON 8044/8.) For all road aggregates, kerbs, setts (See London.)  
**DOW-MAC (PRODUCTS) LTD.**, Tillingham, Stafford. All grades of washed sand and gravel. (Tel.: Market Deeping 2301.)  
**DUSTON STONE (PRODUCTS) LTD.**, New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) Producers of building and walling stone, roadstone, hardcore, broken stone, ashes, sand, gravel and boulders. Immediate delivery throughout Northamptonshire.  
**FERRERS AND AGGREGATES, LTD.**, Northampton Road Quarries, Rushden, Northants. (Tel.: Rushden 2354/5.) Largest producers in the county of all grades of high-quality concrete aggregate to B.S. Deliveries throughout Northamptonshire and adjoining counties.  
**GIBBONS, F. B. AND SONS, LTD.**, Welby House, Market Deeping, Peterborough. (Tel.: Market Deeping 3321/2383.) (See Lincolnshire for details.)  
**HOVERINGHAM GRAVEL CO., LTD.**, Hovingham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)  
**KETTON STONE CO. (Prop. Andrew's Garage), Ketton, near Stamford. (Tel.: Ketton 206.)** Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.  
**NEW BARGE AND LIGHTER CO., LTD.**, Market Chambers, Peterborough (Tel. 5534/5), and Ship End Quarries, Wansford, near Peterborough (Tel.: Wansford 384/5). Roadstone, hardcore, broken stone, ballast, ashes, silica clay and sand.  
**NEWARK (PETERBOROUGH) SAND AND GRAVEL CO., LTD.**, 127 Eastfield Road, Peterborough. (Tel.: Peterborough 2091.) All grades washed and screened gravel and sand.  
**PETERBOROUGH QUARRIES, LTD.**, Sandylands, Masey, Peterborough. (Tel.: Market Deeping 2355—3 lines.) Eleven quarries supplying all grades of hardcore and broken stone. Also Wermis at Wansford. All grades gravel and sand at Masey.  
**POLLARD, C. AND SON (TALLINGTON), LTD.**, Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)  
**WELFORD GRAVELS, LTD.**, Head Office: Goldington, Bedford. (Tel.: 157/8/9.) Largest producers of all grades of washed aggregates in Northamptonshire and Bedfordshire. Regular deliveries anywhere. Local office and pits: Portly Ford. (Tel.: Welford 256.)

## NORTH WALES

**CAWOOD, WHARTON AND CO., LTD.**, Pitylly Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-y-n-lai 27.) Crushed limestone and tarred macadam, all grades.

## NORTH WALES

**CHESHIRE AND NORTH WALES TARRIED MACADAM CO., LTD.**, Llanarmon, near Mold. (Tel.: Llanarmon-y-n-lai 43.) Hard, broken limestone, dry and coated to B.S. Inquiries to Registered Office: Market Chambers, Tower Square, Tunstall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 3824.)  
**ELLSMERE SAND AND GRAVEL CO., LTD.**, Wood Lane, Ellesmere, Salop. (Tel.: Ellesmere 167.) (For details, see Shropshire.)  
**ENSTON BROS.**, Llynw Isaf Quarry, Clynog Forest, Caernarvon. (Tel.: Caernarvon 297/8.) All sizes crushed, washed natural sand and gravel. Highest quality. Precast concrete products, ex our Griffiths Crossing Factory, Caernarvon. (Tel.: Caernarvon 2535/6.) Crushed granite ex our quarry, Pengwern and Gwydyr Quarries, Ltd., Trefriw, Llanrwst, Denbighshire. (Tel.: Llanrwst 38.)  
**PENMAENMAWR AND WELSH GRANITE CO., LTD.**, Penmaenmawr. (Tel.: 2256/8), and at Trevor. (Tel.: Clynogfawr 223.) Caernarvonshire. All sizes and gradings of crushed granite aggregate. Any quantity per day; immediate delivery ex stock. Coated granite also available.  
**RUTHIN AND DENBIGH TARMACADAM CO., LTD.**, Denbigh. (Tel.: Denbigh 75.) Lime, limestone, carbonate of lime, tarmacadam, etc. Also inquiries to Lunt Bros., Ltd., 23 Colmore Row, Birmingham. (Tel.: Central 7408—4 lines), and Lunt Bros., Ltd., Stourbridge. (Tel.: 5201—6 lines.)  
**TERN HILL SAND AND GRAVEL CO., LTD.**, Alington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)

## NOTTINGHAMSHIRE

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)  
**BURROWS BROTHERS EXCAVATIONS, LTD.**, Market Place Chambers, West Bank, Chesterfield. (Tel.: 1301.) (For details, see Derbyshire.)  
**GLIN QUARRIES, LTD.**, Central Chambers, Wellgate, Rotherham. (Tel.: Rotherham 5223.) Crushed and graded stone, concrete sand, building sand, plastering sand and crushed gravel; could be collected ex-quarry delivery.  
**GUNTHORPE GRAVELS (1958), LTD.**, (Tel.: Nottingham 77357; and Works: Lowdham 2131.) (An associate company of T. C. Campbell, Ltd.) All grades washed gravel and sand to B.S.  
**HOVERINGHAM GRAVEL CO.**, Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) Quarries at Hoveringham, Holmes, Pierrelong, Colwick, Bleasby and Newark. All grades of washed gravel and sand to any specification. Crushed quarries for surfacing of roads a speciality. Plant capacity 8,000 tons.  
**NEWARK GRAVEL AND CONCRETE CO., LTD.**, Grove Street, New Balderton, Newark, Notts. (Tel.: Newark 401.) All grades washed sand and aggregates.  
**SALISBURY AND WOOD, LTD.**, Matlock. (Tel.: 272/73.) (For details see Derbyshire.)

## OXFORDSHIRE

**AMEY'S AGGREGATES, LTD.**, Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 216.) Billings, Northampton (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.  
**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)  
**BENRY AND SONS, LTD.**, Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)  
**BICESTER STONE CO., LTD.**, Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone tarmacadam, dry, pitched stone, hardcore, etc.  
**CURTIS, J. AND SONS, LTD.**, Botley Works, Oxford. (Tel.: Oxford 41081/2/3.) Sand and all grades of washed aggregates. Pits at Radley, near Abingdon. (Tel.: Abingdon 441.)  
**DANGERFIELD, F. J. AND CO., LTD.**, 261A Finchley Road, London, N.W.3. (Tel.: HAMPTON 8044/8.) For all road aggregates, kerbs, setts (See London.)  
**DIX, G. H. AND SON, LTD.**, Freeland, Oxon. (Tel.: Freeland 234.)  
**DUSTON STONE QUARRIES, LTD.**, New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)  
**GRUNDON, S. (EWELEME), LTD.**, Eweleme, Oxon. (Tel.: Eweleme 20.) London Office (Tel.: Uxbridge 4156.) All grades washed aggregates. Path hoggin, broken stone, building sand.  
**HAINES, H. (WITNEY), LTD.**, Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.  
**WRAYSLEY SAND AND GRAVEL CO., LTD.**, Station Rd., Theale, Reading, Berks. (Tel.: Theale 373.)

## RADNORSHIRE

**BENRY AND SONS, LTD.**, Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)  
**NASH ROCKS STONE AND LIME CO., LTD.**, Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)  
**OLD RADNOR TRADING CO., LTD.**, Quarries in Radnorshire. (Tel.: Kingston 11.) (See Herefordshire.)  
**SALOP SAND AND GRAVEL SUPPLY CO.**, Admaston, Wellington (Tel. 961), Salop.

## RUTLAND

**BULLIMORES SAND AND GRAVEL, LTD.**, South Witham, Grantham, Lincs. (Tel.: Thilston 223.) Building sand, hardcore, ashes. All grades washed sand and aggregates.  
**GIBBONS, F. B. AND SONS, LTD.**, Welby House, Market Deeping, Peterborough. (Tel.: Market Deeping 3321/2383.) (See Lincolnshire for details.)  
**HOVERINGHAM GRAVEL CO.**, Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)  
**KETTON STONE CO. (Prop. Andrew's Garage), Ketton, near Stamford. (Tel.: Ketton 206.)** Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.  
**PETERBOROUGH QUARRIES, LTD.**, Sandylands, Masey, Peterborough. (Tel.: Market Deeping 2355—3 lines.) Quarry at Greatham, all grades of broken stone and hardcore. (See also Northamptonshire.)

## RUTLAND

**POLLARD, C. AND SON (TALLINGTON), LTD.**, Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

## SCOTLAND

**KEIR AND CAWDER, LTD.**, Kirkintilloch Road, Bishopbriggs. (Tel.: Bishopbriggs 3200.) All grades washed sand and gravel aggregates.

## SHROPSHIRE

**BALLIDON QUARRIES, LTD.**, Ballidon, near Ashbourne, Derbyshire. (Tel.: Farwich 201 and 202.) Clean and graded dry limestone to B.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output; reliable deliveries.  
**BENRY AND SONS, LTD.**, Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)  
**DUNNING AND SON, LTD.**, Haughmond Quarry, near Shrewsbury. (Tel.: Upton Magna 286/7.) All grades of high-quality roadstone, concrete aggregates and coated macadam. All to B.S. Any tonnage available for immediate delivery.  
**ELLSMERE SAND AND GRAVEL CO., LTD.**, Wood Lane, Ellesmere, Salop. (Tel.: Ellesmere 167.) All grades of washed gravel, aggregates, concrete and building sands.  
**HARPER AND THOMAS, LTD.**, Baynton Hill Quarry, Shrewsbury. (Tel.: Baynton Hill 351.) High quality roadstone, chippings, concrete aggregates, hardcore and coated macadam. Large tonnages always available.  
**NASH ROCKS STONE AND LIME CO., LTD.**, Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)  
**OLD RADNOR TRADING CO., LTD.**, Kingston (Tel. 11.) (See Herefordshire.)  
**SALOP SAND AND GRAVEL SUPPLY CO.**, Admaston, Wellington (Tel. 961), Salop.  
**TERN HILL SAND AND GRAVEL CO., LTD.**, Alington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)  
**TRENTHAM GRAVEL CO., LTD.**, Lordley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concrete sand. Plastering sand. Plant capacity 2,000 tons per day.

## SOMERSET

**ASHAM QUARRY CO., LTD.**, Chantry, Frome. (Tel.: Nunney 351.) All sizes block, broken and aggregates. Tarrad and bituminous macadam. Ex-quarry or delivered.  
**DANGERFIELD, F. J. AND CO., LTD.**, 261A Finchley Road, London, N.W.3. (Tel.: HAMPTON 8044/8.) For all road aggregates, kerbs, setts (See London.)  
**GILSON, S. C. AND SONS, LTD.**, Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)  
**HALL AND CO., LTD.**, Longmoor House, Ashton Vale Road, Bristol, 3. (Tel. 63001.) Gravel aggregates, concrete, plastering and building sand.  
**ROADS RECONSTRUCTION (1934), LTD.**, Stoneleigh House, Frome. (Tel.: Frome 2361.) All sizes broken limestone, dry and coated, to British Standards. Precast concrete products.  
**WAINWRIGHT, JOHN, AND CO., LTD.**, Shepton Mallet. (Tel.: Shepton Mallet 2366/7.) All sizes basalt, coated basalt, concrete aggregates. Filter-media, building blocks and slabs.

## SOUTH SCOTLAND

**ESK MANUFACTURING CO., LTD.**, Carlisle. (Tel.: Carlisle 2-4941.) (For details see Cumberland.)

## SOUTH WALES

**IN-SITU CONCRETE, LTD.**, Victoria Works, Ebbw Vale (Tel. 3032) and Phoenix Works, Cardiff (Rhwylina 2360) for limestone and slag aggregates, ready-mixed concrete, tarmacadam, media, filling, etc., kerbs and gatings.  
**PENMAENMAWR AND WELSH GRANITE CO., LTD.**, 18 Quay Street, Cardiff. (Tel.: 20546/7.) All sizes and gradings of crushed granite aggregate from our Cardiff and Swansea Dock Depots. Dolomite aggregates from Ewenny Quarry, Bridgend. (Tel.: 1086/7.) Coated stone also available.  
**SESSIONS AND SONS, LTD.**, West Dock, Cardiff. Producers of coarse and fine aggregate, dredged and graded to British Standards. Branches Newport and Swansea. (Also Gloucester and Hereford.)  
**SOUTH WALES SAND AND GRAVEL CO., LTD.**, Head Office: P.O. Box 8, Beaufort Buildings, Swansea. (Tel.: Swansea 53071—5 lines.) Sand and gravel merchants, builders' merchants, filling, gradad dinker filter media. Depots: Cardiff, Newport, Barry, Port Talbot, Briton Ferry, Swansea, Llanelli.

## STAFFORDSHIRE

**BALLIDON QUARRIES, LTD.**, Ballidon, near Ashbourne, Derbyshire. (Tel.: Farwich 201 and 202.) Clean and graded dry limestone to B.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output; reliable deliveries.  
**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)  
**CROXEDEN GRAVEL, LTD.**, Chesdale, Stoke-on-Trent Staffs. (Tel.: Team 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.  
**DUNNING AND SON, LTD.**, Wood End Quarry, Hednesford. (Tel.: Hednesford 302/325.) Washed sand and gravel. All to B.S. High-quality roadstone, concrete aggregates and coated macadam from our Haughmond Quarry, near Shrewsbury. (See Shropshire.)  
**HARPER AND THOMAS, LTD.**, Baynton Hill Quarry, Shrewsbury. (See Shropshire for details.)  
**HILTON GRAVEL, LTD.**, Chesdale, Staffs. (Tel.: Team 241.) Also at Longton, Stoke-on-Trent (Tel.: Longton 32196) and Streton, Burton-on-Trent (Tel.: Burton 6061.)  
**HULLAND GRAVEL CO., LTD.**, Chesdale, Stoke-on-Trent. (Tel.: Chesdale 2323/4, 2119 and 2195.) Manchester Office: Hardy's Buildings, 3 Cateaton Street, Manchester, 3. (Tel.: Blackfriars 2277/8.)  
**RUGLEY GRAVEL CO., LTD.**, Rugley Quarries, Rugley, Staffs. (Tel.: Rugley 251/2.) Entirely modern plant. Sand classifiers. Finest aggregate to B.S. Large output.

# CONTRACTORS' GUIDE TO AGGREGATES

## STAFFORDSHIRE

**SALISBURY AND WOOD, LTD.**, Matlock. (Tel. 272/273.) (For details see Derbyshire.)  
**SHIRE OAK GRAVELS, LTD.**, Lichfield Road, Walsall Wood, Staffs. Washed crushed gravel and washed sand. (Tel.: Brownhills 3253.)  
**TERN HILL SAND AND GRAVEL CO., LTD.**, Alington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) Pit sand, concrete sand, and all grades of washed crushed gravel. Hardcore, clinkers, ashes and hoggins.  
**TRENTHAM GRAVEL CO., LTD.**, Lordsley Quarries, Willoughbridge, near Market Drayton, Staffs. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed shuro concrete sand. Plastering sand. Plant capacity 2,000 tons per day.

## SUFFOLK

**ALRESFORD SAND AND BALLAST CO., LTD.**, Alresford Creek, near Colchester, Essex (Tel.: Wivenhoe 341.) Suffolk area pits at Bures and Stoke-by-Nayland. All grades washed aggregate sand, also hoggins.  
**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)  
**DANGERFIELD, F. J. AND CO., LTD.**, 201A Finchley Road, London, N.W.3. (Tel.: Hampstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)  
**DARBY'S SAND AND GRAVEL CO., LTD.**, Pit at Chippingham, Cambs. (See Cambs.)  
**DICKERSON, M., LTD.**, Teversham Corner, Newmarket Road, Cambridge (Tel.: Cam 56973/4.) (See Cambs.)  
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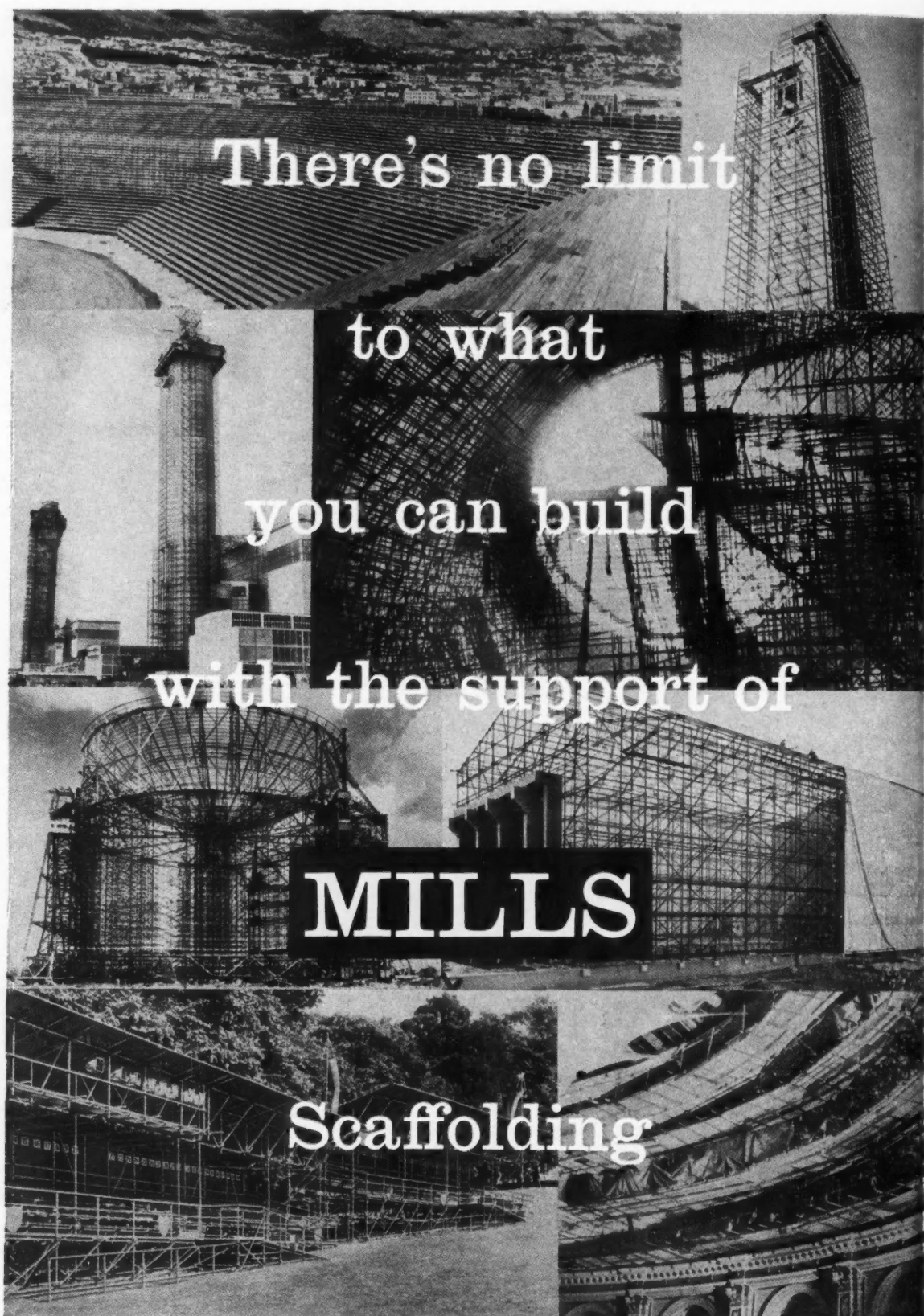
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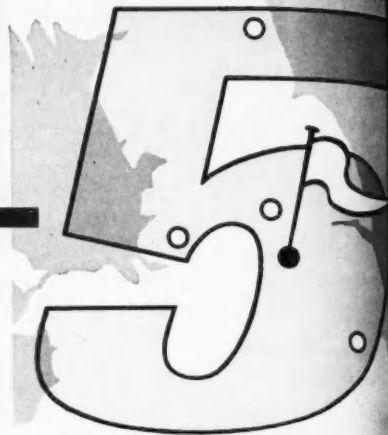
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